

THE NEW YORK SOCIETY OF ELECTRON MICROSCOPISTS

THE  
INTERNATIONAL BIBLIOGRAPHY  
OF  
ELECTRON MICROSCOPY

VOLUME I  
1950 - 1955



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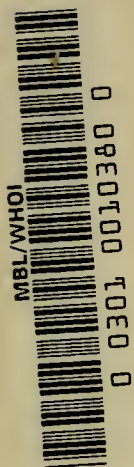


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THE NEW YORK SOCIETY OF ELECTRON MICROSCOPISTS  
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## P R E F A C E

This volume of The New York Society of Electron Microscopists' (NYSEM) International Bibliography of Electron Microscopy (IBEM) contains references to the literature published in the years 1950 through 1955. These were first published on edge-notch cards quarterly as they accumulated. References are also included that were found late and have been issued on the cards through June 1958. Republication in book form is intended to make the references again available now that complete sets of the cards have been exhausted and also to facilitate accessibility to the 4,054 references that occupy more than three linear feet in card form.

We have used this republication as an opportunity to check all references against the papers in the NYSEM reprint collection for accuracy of transcription and subject analysis. The whole has been edited for uniformity of style. All known previous errors have been corrected and despite our pains to avoid them, we cannot doubt that some new ones have been created. We shall be grateful for users bringing these to our attention.

The greatest problem in compiling the IBEM has been locating pertinent papers that are characteristically numerous and widely scattered in the total body of the scientific literature. We were fortunate in the performance of this indispensable task to have been able to enlist the assistance of several libraries. We are pleased to acknowledge the cooperation of Thomas P. Fleming and the staff of the Medical Library of the College of Physicians and Surgeons, Columbia University, New York City; Anna M. Sexton and the staff of the Library of the Division of Laboratories, New York State Department of Health, Albany, New York; Jaqueline Felter and the staff of the Library of the Memorial Center for Cancer and Allied Diseases, New York City, with the collaboration of Frances M. Mottram; and more recently the Library of the Institut für Elektronenmikroskopie, Düsseldorf, F.D.R. We have frequently drawn upon the resources of the Libraries of Columbia University and the Library of The Rockefeller Institute, both New York City, in the routine of compiling and editing the IBEM and gladly acknowledge our indebtedness to these institutions.

Two regional efforts on our behalf to attack the search problem at its source merit appreciative mention. The energy of W. Bernhard, Institute de Recherches sur le Cancer, Villejuif (Seine), in bringing the existence and needs of the IBEM

to the attention of French electron microscopists has resulted in a freely flowing stream of reprints from authors of newly published papers. From Switzerland regular collections of reprints from the entire country have been received at one time as a result of the industry of Alain Gautier, Secretary of the Section d'Optique et de Microscopie Electroniques of the Comité Suisse d'Optique. The widespread benefits of these endeavors is self-evident.

We are grateful to the thousands of microscopists who have generously responded to our requests for reprints. These reprints are the raw material from which the IBEM is constructed. They help to assure accurate references and subject analyses. We continue to believe, however, that without being solicited, investigators should promptly submit their reprints for indexing, feeling the same responsibility for securing bibliographic recognition of their work as they do for initially publishing their findings.

The NYSEM and particularly the IBEM were fostered at their inception by The New York Academy of Sciences through its Executive Director, Mrs. Eunice Thomas Miner, whose assistance and counsel are appreciatively recalled.

The IBEM was undertaken with a grant from the Lillia Babbitt Hyde Foundation. During the period that the number of subscribers was growing to the point where the IBEM would become self-supporting, the Hyde Foundation aided with further grants. This and the aid of the following organizations is gratefully acknowledged: Radio Corporation of America, Philips Electronics, Inc., Farrand Optical Co., Optical Film Co., and U. S. Public Health Service (Grant C-2725).

It is a pleasure to mention the following members of NYSEM whose personal contributions at various times have helped to assure the success of the IBEM:

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Kenneth T. Morse, Bibliographer  
and  
Dan H. Moore, Chairman  
Bibliography Committee  
April 9, 1959

## I N T R O D U C T I O N

Scope This is a bibliography of the world literature on electron microscopy for the use of practicing electron microscopists. We have attempted to include all papers that report or review original research with or upon the electron microscope. Electron diffraction has been excluded, except for papers reporting instrumentation adapting the electron microscope for these studies, and for studies employing parallel diffraction and microscopic examination of specimens. Papers describing other types of microscopy not functioning with visible or ultra-violet have been included.

This first volume of a series of projected cumulations of references published earlier on edge-notched cards contains all references to papers published from 1950 through 1955 that were issued on cards through June 1958. Not intended to supercede the references currently being published on cards, the cumulations on pages, necessarily published after some delay to allow the fullest reporting of the most recent year's references, are a careful reworking of material published in haste previously, in a compact format.

Titles The titles of papers are rendered in the language of publication, except when that language is in a non-Roman alphabet or is a minor western European language. In these instances the title has been translated into English and the language of the original noted in parenthesis. The titles of abstracts are followed by the designation: (Abstract).

Journals The titles of journals have been abbreviated according to the style found first in reviewing the following sources in the order listed: List of Periodicals Abstracted by Chemical Abstracts (Columbus, Ohio), Current List of Medical Literature (Washington, D.C.), and World List of Scientific Periodicals (London, Butterworth).

References A reference consists of author(s), title, and an item number. The item number uniquely identifies a reference in relation to every other reference in the volume, and is the means of identifying the reference in the coauthor and subject indexes. In addition, when the reference is to a book, the place of publication, name of publisher, and year of publication are supplied. When the reference is to a paper in a journal, the abbreviated title of the journal is followed by the volume number, inclusive paging, and month and year of publication: 36:813-5. 9/53.

Arrangement In the body of the work, the references are arranged alphabetically by the name of the first author and then by additional authors if any. Two or more papers by the same author or sequence of coauthors are arranged chronologically by year of publication. Two or more papers by the same author or coauthors and published in the same year are arranged alphabetically by title.

Indexes Authors of works of multiple authorship, who are other than first authors, may be located by means of the Coauthor Index that follows the body of the work and identifies each coauthor's work by its item number. The Subject Index at the end of the volume is a classified list of terms developed by NYSEM for the IBEM. The user should familiarize himself with the entire list before attempting to use any part of it, so that he will be aware of the logical relationship existing between terms.

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- Abelev, G.I. & N.N. Solov'ev 1  
Metod prigtvleniia preparatov diia  
elektronnoi mikroskopii iz solevykh rastvorov.  
Mikrobiolgia. 22:707-8. 1953.
- Abood, L.G. & R.W. Gerard 2  
Enzyme distribution in isolated  
particulates of rat peripheral nerve. J.  
Cellular Comp. Physiol. 43(3):379-92.  
1954.
- Ada, G.L. & Beverly T. Perry 3  
The nucleic acid content of influenza  
virus. Australian J. Exptl. Biol. Med. Sci.  
32:453-68. 1954.
- Adams, C.R. & W.O. Milligan 4  
Electron micrographic studies in the  
system BeO-In<sub>2</sub>O<sub>3</sub>. J. Phys. Chem. 58:219-  
22. 1954.
- Adolph, William E., Richard F. Baker &  
George M. Leiby 5  
Electron microscope study of epidermal  
fibers. Science. 113:685-6. 6/15/51.
- Aebi, H. 6  
Über die chemische und morphologische  
Natur der Stickstoffabgabe von Gewebs-  
schnitten im Warburg-Versuch. Biochim.  
et Biophys. Acta. 9:443-56. 1952.
- Afzelius, Bjorn A. 7  
The fine structure of the sea urchin  
spermatozoa as revealed by the electron  
microscope. Z. Zellforsch. 42(6):134-48.  
1955.
- Afzelius, B.M. 8  
On the fine structure of the pollen  
wall in *Clivia miniata*. Botan. Notiser.  
108:141-3. 1955.
- Afzelius, B.A. 9  
The ultrastructure of the nuclear  
membrane of the sea urchin oocyte as  
studied with the electron microscope. Exptl.  
Cell. Research. 8:147-58. 1955.
- Afzelius, B.M., G. Erdtman, & F.S.  
Sjostrand. 10  
On the fine structure of the outer  
part of the spore wall of *Lycopodium*  
*clavatum* as revealed by the electron  
microscope. Svensk Botan.Tidskr. 48(1):155-  
61. 1954.
- Agar, A.W., F.H. Davis & R.S.M. Revell 11  
The metallographic study of a low-alloy  
steel by the optical and electron microscopes.  
1st Int. Cong. Electron Micros., Paris, 9/50,  
Proc.:365-79. Paris, Ed. Rev. Optique, 1953.
- Agar, A.W. & R.S.M. Revell 12  
Replica techniques in electron microscopy.  
Brit. J. Appl. Phys. 2:8-11. 1/51.
- Agar, Hilda D. & H.C. Douglas 12a  
Electron microscopy of thin sections of  
yeast. (Abstract, Paper #16, Electron  
Microscope Society of America Meeting,  
University Park, Pa., 10/27-9/55.) J. Appl.  
Phys. 26:1393. 1955.
- Agar, Hilda D. & H.C. Douglas 13  
Studies of budding and cell wall structure  
of yeast. Electron microscopy of thin sec-  
tions. J. Bacteriol. 70(4):427-34. 10/55.
- Agar, A.W. & R.S.M. Revell 13a  
An investigation on the shape and resolution  
of Formvar replica films. (Abstract, Paper  
#A26, Electron Microscope Society of America  
Meeting, Highland Park, Ill., 10/14-6/54.) J.  
Appl. Phys. 25:1456. 1954.
- Albertsson, P.A. & H. Leyon 14  
The structure of chloroplasts. V. *Chlorella*  
*pyrenoidosa* Pringsheim studied by means of  
electron microscopy. Exptl. Cell Research.  
7:288-90. 8/54.
- Aleksandrowicz, Julian 15  
Morphology of the smallest particles of  
granulocytes in the light of continuing re-  
search. (in Polish) Polskie Tygodnik Lekarski.  
8(24):1-3. 1953.
- Aleksandrowicz, J. 16  
Elektronenmikroskopie in der Hämatologie.  
Acta Med. Acad. Sci. Hung. 6(Suppl. 1):135-41.  
1954.
- Aleksandrowicz, Julian 17  
Ultrastruktura granulocytow badanych za  
pomoca mikroskopu elektronowego. Arch. Immunol.  
Terap. Doświadczalnej. 2:17-29. 1954.
- Aleksandrowicz, Julian, Julian Blicharski  
& A. Feltynowski 18  
Contribution to the morphology of granulocytes  
in the light of electron microscope research.  
(in Polish) Polskie Tygodnik Lekarski. 7:1765-  
6. 1952.
- Aleksandrowicz, Julian, J. Blicharski &  
A. Feltynowski 19  
Stany czynnosciowe krwinek plytkowych w  
mikroskopie elektronowym. (Functional states  
of blood platelets in the electron microscope.)  
Polskie Tygodnik Lekarski. 7(45):3-7. 1952.
- Aleksandrowicz, J., J. Blicharski & A.  
Feltynowski 20  
Contribution à la morphologie des granulo-  
cytes examinés au moyen due microscope électro-  
nique. Acta Haematol. 9(5):307-10. 1953.
- Aleksandrowicz, J., J. Blicharski & A.  
Feltynowski 21  
Les états fonctionnels des plaquettes  
sanguines, au microscope électronique.  
Le Sang. 25(1):67-70. 1954.
- Aleksandrowicz, Julian, Julian Blicharski &  
Antoni Feltynowski 22  
Mikroskopia elektronowa skladnikow postaciowych  
krwi. Postępy Hi I Med. Doświadczalnej. 8:445-  
616. 1954.
- Aleksandrowicz, Julian, Julian Blicharski  
& Antoni Feltynowski 23  
Electron microscopy of the blood. (in Polish)  
Warsaw, Panstwowe Wydawnictwo Naukowe, 1955.  
241 p.
- Aleksandrowicz, Julian, Julian Blicharski  
& Antoni Feltynowski 24  
Elektronoskopia postaciowych skladnikow krwi  
ze Szczegolnym uwzglednieniem plytek. Polskie  
arch. med. wewn. 25:143-7. 1955.
- Alfrey, Turner, Jr., E.B. Bradford &  
J.W. Vanderhoff 25  
Optical properties of uniform particle-size  
latexes. J. Opt. Soc. Amer. 44:603-9. 8/54.

- Alia, M., T. Alvira & M. Munoz Taboadela 26  
'Estudio geológico edafico de algunos suelos de la Guinea Continental española. Anales edafol. y fisiol. vegetal. Madrid. 11(1):1-32. 1952.
- Allen, N.P. 27  
The application of the electron microscope in metallography. In Metallurgical Applications of the Electron Microscope. Institute of Metals Monograph and Report Series No. 8.:1-18. London, 1950.
- Allfrey, V.G. & A.E. Mirsky 28  
On the supposed contamination of thymus nuclear fractions by whole cells. Science. 121:879-80. 6/17/55.
- Allred, Harry M. 29  
The electron microscope in the petroleum industry. Lubrication. 39:141-52. 12/53.
- Aloisi, M., A. Ascenzi & E. Bonetti 30  
Aspetti strutturali dell'actina studiata al microscopio elettronico nella distrofia muscolare da avitaminosi E. Experientia. 8:266-9. 7/15/52.
- Aloisi, M., A. Ascenzi & E. Bonetti 31  
Ricerche comparative al microscopio elettronico sul comportamento dell'actina estratta da muscoli di conigli normali e da muscoli do conigli in carenza di vitamina E. Rend 1st super sanita. 15:430-8. 1952.
- Aloisi, M., A. Ascenzi & E. Bonetti 32  
The fine structure of striated myofibrils. J. Pathol. Bacteriol. 67(2):475-83. 1954.
- Amakasu, K., M. Fukase, E. Sekine, M. Takahashi, H. Noaki & S. Hirota 33  
Condition of the precipitation of carbonate and the crystal structure. Le Vide. 51:43-55. 1954.
- Amboss, K. 34  
A simple reflexion-transmission stage for an electron microscope. J. Sci. Instr. 32:116. 3/55.
- Amboss, K., H.W. Emerton & J. Watts 35  
A new approach to the electron microscopy of fibres. British Paper and Board Makers' Assoc. Proc. Tech. Sect. 35(3):487-510. 1954.
- Amelunxen, F. 36  
Über die Strukturanalyse der Eiweißspindeln der Cactaceae. Protoplasma. 45(2):228-40. 1955.
- American Society for Testing Materials 37  
Report of Subcommittee X1 on Electron Microstructure of Steel, first progress report. In Report of Committee E-4 on Metallography. Preprint 103. Philadelphia, 1950. 49 p.
- Ames, J., T.L. Cottrell & A.M.D. Sampson 38  
An electron microscope study of crystal surfaces. Trans. Faraday Soc. 46:938-41. 1950.
- Ames, J. & Avis M.D. Sampson 39  
An electron-microscope study of plasticized nitrocellulose. J. Appl. Chem. London. 1:337-41. 8/1/51.
- Ames, Ralph W. & H.H. Thornberry 40  
Carnation mosaic virus: properties and electron microscopy. Phytopathology. 42:289-91. 6/52.
- Amman-Brass, H. 41  
Elektronenmikroskopische Untersuchung der physikalischen Reifung von Chlorsilberarmen photographischen Emulsionen. Z. Naturforsch. 6a(7):372-4. 1951.
- Amman-Brass, H. 42  
Étude par néphélométrie et par microscopie électronique de la maturation physique des émulsions de gélatinochlorure d'argent. Science et inds. phot. 23a:161-7. 1951.
- Amott, Earl & L.W. McLennan 43  
Complexes in lubricating oil greases. Institute Spokesman. Natl. Lubricating Grease Inst. 14(12):7-23. 3/51.
- Anacker, Robert L. & Erling J. Ordal 44  
Study of a bacteriophage infecting the myxobacterium Chondrococcus columnaris. J. Bacteriol. 70(6):738-41. 1955.
- Anderson, Everett 45  
The electron microscopy of Trichomonas muris. J. Protozool. 2:114-24. 1955.
- Anderson, Guy R. 46  
Nitrogen fixation by psuedomonas-like soil bacteria. J. Bacteriol. 70(2):129-33. 1955.
- Anderson, N.G. & I.M. Dawson 47  
The study of crystal growth with the electron microscope III. Growth-step patterns and the relationship of growth-step height to molecular structure in n-nonatriacontane and in stearic acid. Proc. Roy. Soc. London. 218a:255-68. 6/25/53.
- Anderson, N.G. & I.M. Dawson 48  
The study of crystal growth with the electron microscope. IV. The nucleation and growth of n-proyl n-pentacontanoate. Proc. Roy. Soc. London. 228a:539-48. 1955.
- Anderson, Thomas F. 48a  
Destruction of bacterial viruses by osmotic shock. (Abstract, Paper #33, Electron Microscope Society of America Meeting, Washington, D.C., 10/6-8/49.) J. Appl. Phys. 21:70. 1950.
- Anderson, Thomas F. 49  
A new technique for the study of biological structures in the electron microscope. Biol. Bull. 99:315-6. 10/50.
- Anderson, Thomas F. 50  
The use of critical point phenomena in preparing specimens for the electron microscope. J. Appl. Phys. 21:724. 7/50.
- Anderson, Thomas F. 51  
Techniques for the preservation of three-dimensional structure in preparing specimens for the electron microscope. Trans. N.Y. Acad. Sci. 13(4):130-4. 2/51.
- Anderson, Thomas F. 52  
Stereoscopic studies of cells and viruses in the electron microscope. Am. Naturalist. 86:91-100. 3-4/52.
- Anderson, Thomas F. 52a  
A technique for retaining three-dimensional structures in drying specimens for the electron



microscope. (Abstract, Paper #11, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:158. 1/52.

Anderson, Thomas F. 52b  
Effects of Brownian motion on the structure of a three-dimensional specimen. (Abstract, Paper #41, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:117. 1953.

Anderson, Thomas F. 53  
A method for eliminating gross artefacts in drying specimens. 1st Int. Cong. Electron Micros., Paris, 9/50, Proc. :567-76. Paris, Ed. Rev. Optique, 1953.

Anderson, Thomas F. 54  
The morphology and osmotic properties of bacteriophage systems. Cold Spring Harbor Symposia Quant. Biol. 18:197-203. 1953.

Anderson, Thomas F. 55  
The structures of certain biological specimens by the critical point method. 1st Int. Cong. Electron Micros., Paris, 9/50, Proc. :577-85. Paris, Ed. Rev. Optique, 1953.

Anderson, Thomas F. 55a  
Report on the International Conference on Electron Microscopy. (Abstract, Paper #A1, Electron Microscope Society of America Meeting, Highland Park, Illinois, 10/14-6/54.) J. Appl. Phys. 25:1453. 1954.

Anderson, Thomas F. 56  
Some fundamental limitations to the preservation of three-dimensional specimens for the electron microscope. Trans. N.Y. Acad. Sci. 16(5):242-9. 3/54.

Anderson, Thomas F. 57  
Stereoscopic electron microscopy of phage particles and of their interaction with host cells. VI Cong. Int. Microbiol., Atti. 3: 403. 1955.

Anderson, Thomas F. & Carl F. Oster Jr. 58  
The critical point method for drying electron microscope specimens. (Abstract, Paper #18, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1416. 11/53.

Anderson, Thomas F., Catherine Rappaport, & Naomi A. Muscatine 59  
On the structure and osmotic properties of phage particles. Ann. inst. Pasteur. 84: 5-14. 1/53.

Andre, J. 60  
Problèmes de structures d'ultrastructures et de fonctions cellulaires. Paris, Masson et Cie, 1955. 358p.

Andre, R., B. Dreyfus & M. Bessis 61  
La ponction ganglionnaire dans la maladie de Hodgkin examinée au microscope électronique. Presse med. 63:967-70. 1955.

Angelico, R., A. Caló, A. D'Amore, A. Mariani, O. Mariani-Marelli F. Scanga 62  
Ricerche sull'idrazide dell'acido isonicotinico. Rend. ist. super. sanità. 15(9):627-703. 1952.

Angulo, Juan J. & John H.L. Watson 62a

Electron microscope study of isolated nuclei of liver cells from laboratory animals. (Abstract, Paper #31, Electron Microscope Society of America Meeting, Washington, D.C., 10/6-8/49.) J. Appl. Phys. 21:70. 1950.

Angulo, Juan J. & John H.L. Watson 63  
An electron microscope study of isolated nuclei of liver cells from laboratory animals. Science. 111:670-3. 6/16/50.

Angulo, Juan J., John H.L. Watson & Jorge Olarte 64  
Artifacts with other nonspecific appearances resembling virus particles, and the so-called filamentous forms of influenza and fowl pest viruses in human skin tissue fluid examined with the electron microscope. J. Bacteriol. 60:129-38. 1950.

Angulo, Juan J., John H. L. Watson, C. Courtney Wedderburn, Francisco León-Blanco & Gerardo Varela 64a  
Electronmicrography of treponemas from cases of yaws, pinta and the so-called Cuban form of pinta. (Abstract, Paper #28, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:113. 1951.

Angulo, Juan J., John H.L. Watson, C. Courtney Wedderburn, Francisco Leon-Blanco & Gerardo Varela 65  
Electron micrography of treponemas from cases of yaws, pinta, and the so-called Cuban form of pinta. Am. J. Trop. Med. 31:458-78. 7/51.

Antal, John J. & A.H. Weber 66  
An electron-optical study on the surface of glass. Acta Cryst. 7:122-6. 1/54.

Antes, Leland L. 66a  
Electron diffraction studies of thin iron and chromium films. (Abstract, Paper #23, Electron Microscope Society of America Meeting, Washington, D.C., 10/6-8/49.) J. Appl. Phys. 21:69. 1950.

Applemans, M. & J. Blockeel 67  
Examen du vitré au microscope électronique. Ophthalmologica. 124(5):297-302. 11/52, and Bull. Soc. Belge d'Ophtalmol. 99:437-43. 1951.

Appelmans, M. & E. Carlier 68  
Altérations du corps vitré associées à l'iridocyclite. Arch. ophtalmol. 13(6):577-85. 1953, and Bull. acad. royale de med. Belge. 18(5):270-9. 1953.

Appelmans, M., E. Carlier & H. de Muelenaere 69  
Altérations du vitré associées à la retinite diabétique. Bull. soc. Belge d'ophtalmol. 104:1-10. 1953.

Archard, G.D. 70  
Magnetic electron lens aberrations due to mechanical defects. J. Sci. Instr. 30:352-8. 10/53.

Archard, G.D. 71  
Requirements contributing to the design of devices used in correcting electron lenses. Brit. J. Appl. Phys. 5:294-9. 1954.

Archard, G.D. 72  
Some properties of symmetrical slit ("cylindrical") electron lenses. Brit. J. Appl. Phys.

5:395-9. 11/54.

Archard, G.D. 73  
A possible chromatic correction system for electron lenses. Proc. Phys. Soc. London. 68b:817-29. 1955.

Archard, G.D. 74  
Two new simplified systems for the correction of spherical aberrations in electron lenses. Proc. Phys. Soc. London. 68b:156-64. 1955.

Archetti, Italo 75  
Il virus della malattia di Newcastle visto al microscopio elettronico. Rend. ist. super. sanità. 13:3-7. 1950.

Archetti, I. 76  
Appearances associated with filamentous forms of influenza viruses. Arch. ges. Virusforsch. 6(1):29-35. 1955.

Arend, H., R. Broser-Warminsky & E. Ruska 77  
Zur Verwendung von ZnS-Einkristallen als Leuchtschirme im Elektronenmikroskop. Z. wiss. Mikroskop. 62(1):46-64. 1954.

Arnold, James S. & Webster S.S. Jee 78  
The optical activity of collagen fibers and calcification of bone matrix. (Abstract) Anat. Record. 118:373. 2/54.

Arwill, Tore & Gunnar Bloom 79  
Some remarks on the structure of dentin as revealed by the electron microscope. Acta Odontol. Scand. 12(3-4):185-92. 1954.

Ascenzi, A. & E.L. Benedetti 80  
Osservazioni sistematiche sulla struttura del metaplasma osseo eseguite mediante il microscopio elettronico. Arch. sci. biol. Italy 38:234-47. 1954.

Ascenzi, A. & A. Chiozzotto 81  
Applicazione della tecnica della pseudo-replica allo studio della fine struttura dell'osso al microscopio elettronico. Rend. ist. super. sanità. 18:214-24. 1955.

Ascenzi, A. & A. Chiozzotto 82  
Electron microscopy of the bone ground substance using the pseudo-replica technique. Experientia. 11(4):140-2. 1955.

Ash, E.A. 83  
Use of space charge in electron optics. J. Appl. Phys. 26(3):327-30. 3/55.

Ashley, C.A., A. Arasimavicius & G.M. Hass 84  
Enzymatic studies of changes in Adenosinetriphosphate during contraction of isolated skeletal myofibrils. Exptl. Cell Research 6(2):271-82. 1954.

Ashley, Charles A., Keith R. Porter, Delbert E. Philpott & George M. Hass 85  
Observations by electron microscopy on contraction of skeletal myofibrils induced with adenosinetriphosphate. J. Exptl. Med. 94(1):9-20. 7/1/51.

Ashley, Charles A., Armin F. Schick, Albert Arasimavicius & George M. Hass 86  
Isolation and characterization of mammalian striated myofibrils. Trans. 4th Conf. on Connective Tissues. 2/18-20/53. :47-141.

Spons. by Josiah Macy Jr. Found.

Asmund, Berit 87  
Electron microscope observations on *Mallomonas caudata* and some remarks on its occurrence in four Danish ponds. Bot. Tidsskr. 52:163-8. 1955.

Astbury, W.T. 88  
Applications of the electron microscope. Conf. of Electron Micros. Delft, 7/49. Proc. The Hague, Nijhoff, 1950. :27-34.

Astbury, W.T. 89  
The molecular structure of skin, hair and related tissues. Brit. J. Dermatol. 62:1-15. 1/50.

Astbury, W.T. 89a  
Recent electron microscopic work at Leeds. (Abstract, Paper #30, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:114. 1951.

Astbury, W.T., L. Dmochowski & A. Millard 90  
Some recent observations on the examination in the electron microscope of extracts of normal and malignant tissues of mice of strains with high or low incidences of breast cancer. (Abstract, Paper #39, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1419. 11/53.

Astbury, W.T. & N.N. Saha 91  
Structure of algal flagella. Nature. 171:280-3. 2/14/53.

Asunmaa, Saara 92  
Electron microscope studies on sections of aspen sulfite pulp fibres. Svensk Papperstidn. 58(2):33-4. 1955.

Atherton, E. 93  
Determinations of size of particles with the electron microscope. Nature. 171:350. 2/21/53.

Austin, A. E. 94  
Application of new etchants for delineation of fine structure in steel. Symposium on techniques for electron metallography. Special Technical Publication, No. 155. Philadelphia, Amer. Soc. Testing Materials, 1953.

Austin, A.E. & C.M. Schwartz 95  
Modification of a positive-replica technique for electron microscopy. J. Appl. Phys. 22:847-8. 6/51.

Azarowicz, Edward N., John O. Erickson & Dorothy M. Armen 96  
Information from the electronmicrograph. J. Biol. Phot. Assoc. 22(2):49-51. 5/54.

Baas, G. 97  
Demonstration of the austenite-pearlite transformation by means of the emission electron microscope. Philips Tech. Rev. 16(11):337-9. 1955.

Babudieri, Brenno 98  
Ricerche di microscopia elettronica. IV. Studio morfologico del genere *Treponema*. Rend. ist. super. sanità. 15:711-22. 1952.

Babudieri, B. & D. Steve-Bocciarelli 99  
La tecnica delle repliche applicata all'osservazione di oggetti biologici con il microscopio elettronico. Rend. ist. super.



sanità. 17:456-62. 1954.

Bachrach, H.L. & C.E. Schwerdt 100  
Purification studies on Lansing poliomyelitis virus. II. Analytical electron microscopic identification of the infectious particle in preparations of high specific infectivity. J. Immunol. 72:30-8. 1/54.

Backus, R.C. 100a  
Preparation of droplet patterns from infective suspensions. (Abstract, Paper #19, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:159. 1/52.

Backus, R.C. 101  
Spraying of particulate suspensions containing infective materials for electron micrographic analysis. Science. 115:246-8. 2/29/52.

Backus, Robert C. 102  
A new method for intracellular observations: adhesion partitioning. (Abstract, Paper #16, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1415. 11/53.

Backus, Robert C. 103  
Adhesion partitioning: intrasomatic observations on normal *Escherichia coli* and T2 bacteriophage. J. Biophys. Biochem. Cytol. 1(2):99-110. 3/55.

Backus, Robert C. & Robley C. Williams 103a  
Reproducibly representative specimen fields in electron microscopy. (Abstract, Paper #18, Electron Microscope Society of America Meeting, Washington, D.C., 10/6-8/49.) J. Appl. Phys. 21:68. 1950.

Backus, Robert C. & Robley C. Williams 104  
The use of spraying methods and of volatile suspending media in the preparation of specimens for electron microscopy. J. Appl. Phys. 21:11-5. 1/50.

Baez, Albert V. 105  
A study of diffraction microscopy with special reference to X-rays. J. Opt. Soc. Amer. 42:756-62. 10/52.

Bagno, Odette, Jacqueline Longuet-Escard & Agnès Mathieu-Sicaud 106  
Electronmicroscopie de sols d'hydroxyde de nickel. Compt. rend acad. sci. 232:1350-2. 4/51.

Bahr, G.F. 107  
The reconstitution of collagen fibrils as revealed by electron microscopy. Exptl. Cell. Research. 1:603-6. 11/50.

Bahr, G.F. 108  
Ergebnisse elektronenmikroskopischer Untersuchungen des kollagenen und elastischen Gewebes. Arch. Dermatol. u. Syphilis. 193: 518-26. 1951.

Bahr, G.F. 109  
Über die Feinstruktur elastischer Fasern. Z. Anat. Entwicklungsgeschichte. 116:134-8. 1951.

Bahr, G.F. 110  
Über einige Eigenschaften rekonstituierter kollagener Fasern. Exptl. Cell Research.

3:485-8. 1952.

Bahr, G.F. 111  
Galloycyanin-indiumalum. Electron stains I. Exptl. Cell Research. 5(2):551-3. 12/53.

Bahr, G.F. 112  
Elektronenmikroskopische Untersuchungen über den lamellären Aufbau der Linsenkapsel des Auges. Albrecht von Graefe's Arch. Ophthalmol. 155:635-8. 1954.

Bahr, G.F. 113  
Osmium tetroxide and ruthenium tetroxide and their reactions with biologically important substances. Electron stains III. Exptl. Cell Research. 7:457-79. 1954.

Bahr, G.F. 114  
Continued studies about the fixation with osmium tetroxide. Electron stains. IV. Exptl. Cell. Research. 9:277-85. 1955.

Bahr, G. F. 115  
Eine Routinemethode zur Bestimmung des Osmiumgehaltes biologischer Präparate. Z. Naturforsch. 10b(3):156-8. 1955.

Bahr, G.F. 116  
Larger section areas for electron microscopy by aid of ultrasonics. Experientia. 11(6): 239. 1955.

Bahr, G.F. & W. Beermann 117  
The fine structure of the nuclear membrane in the larval salivary gland and midgut of *Chironomus*. Exptl. Cell Research. 6:519-22. 5/54.

Bahr, G.F. & A. Engström 118  
Die Feinstruktur des elastischen Gewebes. Eine elektronenoptische und röntgenographische Untersuchung. Verh. anat. Ges. Münster, 52 Versamml., 4/6-9/54. :197-204.

Bahr, G.F. & G. Moberger 119  
Methyl-mercury-chloride as a specific reagent for protein-bound sulfhydryl groups. Electron stains II. Exptl. Cell Research. 6:506-18. 5/54.

Bahr, G.F., H. Schuermann & G. Greclius 120  
Elektronenmikroskopische Untersuchungen bei progressiver Sklerodermie, Lupus erythematosus acutus (und Acrodermatitis chronica atrophicans.) Hautarzt. 2(11): 513-4. 11/51.

Bailey, G.L.J. & Sheila Vernon-Smith 121  
The structure of some non-ferrous alloys as revealed by the electron microscope. (In Metallurgical Applications of the Electron Microscope. Institute of Metals Monograph and Report Series No. 8. :43-55. London, 1950)

Baillie, Y. 122  
Possibilités du microscope électronique en recherche textile et résultats préliminaires. Bull. inst. textile France. 30:55-68. 1/52.

Bairati, Angelo 123  
Le attuali conoscenze sulla struttura submicroscopica dei costituenti del tessuto nervoso ottenute con il microscopio elettronico. Acta neurochir. 2:413-6. 3-4/52.

- Bairati, Angelo 124  
La organizzazione delle proteine nelle strutture submicroscopiche analizzata con il microscopio elettronico. Boll. soc. ital. biol. sper. 28(4):512-41. 1952.
- Bairati, A. 125  
Ricerche sul meccanismo delle colorazioni argentiche dei tessuti connettivali. -I) Colorazione delle fibrille collagene isolate. Boll. soc. ital. biol. sper. 29(5):1096-8. 1953.
- Bairati, Angelo 126  
Struttura submicroscopica del tessuti connettivi. Atti Soc. ital. Anat. XIV Convegno Sociale, Naples, 10/52. :21-62. 1953.
- Bairati, A. 127  
Struttura submicroscopica del connettivo aciculare di pesci. Boll. soc. ital. biol. sper. 29(2):150-2. 1953.
- Bairati, A. 128  
Structure submicroscopique due conjonctif aciculaire. Compt. rend. ass. anat. 79: 508-17. 1954.
- Bairati, Angelo 129  
Struttura submicroscopica del connettivo aciculare. Arch. sci. biol. Italy. 39:31-58. 1955.
- Bairati, A. & A. Franchini 130  
Indagini ultrastrutturali sui primi segni della morte nella *Amoeba proteus*. Minerva medicolegale e arch. antropol. criminale. 72(4-5):93-4. 1952.
- Bairati, Angelo & Antonio Grignolo 131  
Indagini con il microscopio elettronico sulla struttura submicroscopica della cristalloide. Boll. soc. ital. biol. sper. 30(1):15-6. 1954.
- Bairati, A. & A. Grignolo 132  
Indagini preliminari con il microscopio elettronico sulla struttura submicroscopica della membrana di Descemet. Boll. soc. ital. biol. sper. 30(1):16-7. 1954.
- Bairati, Angelo & Antonio Grignolo 133  
Submicroscopic structure of the ox lens capsule. Naturwissenschaften. 41(11):263-4. 1954.
- Bairati, A. & F.E. Lehmann 134  
Diversi costituenti della *Amoeba proteus* (plasmalemma, ialoplasma, vacuoli) esaminati al microscopio elettronico. Pubbl. staz. zool. Napoli. 23 Suppl.:193-207. 1951.
- Bairati, A. & F.E. Lehmann 135  
Über die Feinstruktur des Hyaloplasmas von *Amoeba proteus*. Rev. suisse zool. 58(3):443-9. 1951.
- Bairati, A. & F.E. Lehmann 136  
Über die submikroskopische Struktur der Kernmembran beim *Amoeba proteus*. Experientia. 8:60-1. 2/52.
- Bairati, A. & F.E. Lehmann 137  
Structural and chemical properties of the plasmalemma of *Amoeba proteus*. Exptl.

Cell Research. 5:220-33. 9/53.

- Bairati, A. & F.E. Lehmann 138  
Partial disintegration of cytoplasmic structures of *Amoeba proteus* after fixation with osmium tetroxide. Experientia. 10(4):173. 1954.
- Bairati, A., F. Massari & G. Marsico 139  
Prime immagini elettroniche delle fibre del tessuto reticolare. Boll. soc. ital. biol. sper. 27(12):1583-5. 1951.
- Bairati, A., F. Massi & G. Marsico 140  
Submicroscopic structure of reticular tissue fibres. Experientia. 8(9):341. 1952.
- Bairati, Angelo, Franco Massari & Guiseppe Marsico 141  
Structure submicroscopique des fibres du tissu reticulaire. Compt. rend. ass. anat. 74:466-73. 1953.
- Bairati, A. & Y. Roulet 142  
Ricerche sui fattori che influenzano la colorazione argentica dell strutture fibrose dei connettivi. II. Ancora sulle fibrille collagene. Boll. soc. ital. biol. sper. 29(8): 1613-4. 1953.
- Bairati, A. & E.S. Schuetz 143  
Ricerche sul meccanismo delle colorazione argentiche nei tessuti connettivali. IV. Dati diffrattografici. Boll. soc. ital. biol. sper. 29(12):1876-7. 1953.
- Bairati, A. & E.W. Schütz 144  
Structure submicroscopique des fibrilles collagènes après coloration argentique. (Impregnation aux sels d'argent.) Bull. ass. anat. Paris. 87:899-908. 1955.
- Baker, John R. 145  
The 'Golgi substance'. Nature. 168:1089. 12/22/51.
- Baker, John R. 146  
What is the "Golgi" controversy? J. Roy. Microscop. Soc. 74(3-4):217-21. 3/55.
- Baker, Richard F. 147  
Sliding microtome for thin sections. (Abstract, Paper #9, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1415. 11/53.
- Baker, R.F., H. Coffey, O. Warren, R.D. Vold & D. Pease 148  
Sectioning of hydrocarbon gels for the electron microscope. Rev. Sci. Instr. 24:79. 1/53.
- Baker, R.F. & F.W.S. Modern 148a  
Controlled fixation with osmium tetroxide. (Abstract, Paper #18, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:159. 1/52.
- Baker, Richard F. & Daniel C. Pease 148b  
Improved sectioning technique for the electron microscope. (Abstract, Paper #10, Electron Microscope Society of America Meeting, Washington, D.C., 10/6-8/49.) J. Appl. Phys. 21:67. 1950.
- Baker, Richard F., & Oliver Warren 148c  
New embedding medium for thin sectioning. (Abstract, Paper #32, Electron Microscope



Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:162. 1/52.

Baker, Richard F. & Oliver Warren 148d  
Colloidal iron reactions in the kidney. (Abstract, Paper #H16, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1466. 1954.

Baker, Richard F. & Oliver Warren 149  
Simplified embedding of biological material for thin sectioning. Nature. 169: 420. 3/8/52.

Baker, R., O. Warren, H. Coffey, R. Vold & D. Pease 149a  
A method of preparing thin sections of grease for the electron microscope. (Abstract, Paper #39, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:115. 1951.

Bakker, J. D., Chra. van der Scheer 150  
Electronenmicroscopie en haar toepassing ten behoeve van de Land- en Tuinbouw. Electrotechniek. 15. 4p. 7/16/53.

Balashov, V. & R. D. Preston 151  
Fine structure of cellulose and other microfibrillar substances. Nature. 176:64. 7/9/55.

Baldacci, E. & A. Grein 152  
Esame della forma della spore di attinomiceti al microscopio elettronico e loro valutazione ai fini di una classificazione. Giornale di Microbiol. 1:28-34. 1955.

Baldacci, E., A. Grein & C. Spalla 153  
Studio di una "serie" di specie di attinomiceti: A. diastaticus. Giorn. microbiol. Italy 1:127-43. 1955.

Baldrige, G. Douglas, Harvey Blank & Geoffrey Rake 154  
Dermatologic aspects of electron microscopy. J. Invest. Dermatol. 16:281-94. 4/51.

Balogh, Gy. & F. Guba 155  
Elektronenmikroskopische Beobachtungen über die Teilung des Mycobacterium tuberculosis (Typus Humanus). Acta Physiol. Acad. Sci. Hung. 3(2):465-7. 1952.

Banfield, Joan S. 156  
The use of wire mesh grids in the preparation of microcultures. J. Bacteriol. 64(4): 595. 1952.

Banfield, William G. 157  
Occurrence of tapered collagen fibrils from human sources with observations on mesenchymal neoplasms. Proc. Soc. Exptl. Biol. Med. 81:658-60. 1952.

Banfield, William G. 158  
The solubility and swelling of collagen in dilute acid with age variations in man. Anat. Record. 114(2):157-72. 1952.

Banfield, William G. 159  
Aging of connective tissue. In Connective Tissue in Health & Disease. :151-8. Copenhagen, Ejnar Munksgaard, 1954.

Banfield, William G. 159a  
Width and length of collagen fibrils during the development of human skin, in granulation tissue and in the skin of adult animals.

(Abstract, Paper #H3, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1463. 1954.

Banfield, William C. 160  
Width and length of collagen fibrils during the development of human skin, in granulation tissue and in the skin of adult animals. J. Gerontol. 10:13-7. 1/55.

Banfield, William G., Henry Bunting, Maurice J. Strauss & Joseph L. Melnick 161  
Electronmicrographs of thin sections of Molluscum contagiosum. Proc. Soc. Exptl. Biol. Med. 77:843-7. 8/51.

Banfield, W. G., H. Bunting, M. J. Strauss & J. L. Melnick 162  
The morphology and development of Molluscum contagiosum from electron micrographs of thin sections. Exptl. Cell Research. 3:373-82. 6/52.

Banfield, William G., Henry Bunting, Maurice J. Strauss & Joseph L. Melnick 162a  
The morphology and development of Molluscum contagiosum from electronmicrographs of thin sections. (Abstract, Paper #37, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:163. 1/52.

Bang, Frederik B. 163  
Cellular changes in the chick chorio-allantoic membrane infected with Herpes simplex and Vaccinia. A study with thin sections for the electron microscope. Bull. Johns Hopkins Hosp. 87(6):511-47. 12/50.

Bang, Frederik B. 164  
Cellular pathology of virus infections as seen with the electron microscope. Ann. N. Y. Acad. Sci. 54:892-901. 7/10/52.

Bang, Frederik B. 165  
The development of Newcastle disease virus of cells of the chorio-allantoic membrane as studied by thin sections. Bull. Johns Hopkins Hosp. 92:309-29. 4/53.

Bang, Frederik B. 166  
The development of the virus of Newcastle disease in epithelial and fibroblast cells in tissue culture. Bull. Johns Hopkins Hosp. 92:291-307. 4/53.

Bang, F. B. 166a  
"Virus" particles in "normal" chick embryo cells and their similarity in appearance to the Rous tumor virus particles. (Abstract, Paper #F8, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1462. 1954.

Bang, Frederik B. 167  
Morphology of viruses. Ann. Rev. Microbiol. 9:21-44. 1955.

Bang, Frederik B. 168  
Pathology of the cell infected with viruses -- morphological and biochemical aspects. Federation Proc. 14(2):619-32. 6/55.

Bang, F. B. & H. B. Andervont 169  
Detection of the mammary tumor inciter (MTI) in thin sections of spontaneous mouse tumors. (Abstract, Paper #37, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1418. 11/53.

- Bang, F. B., G. O. Gey., K. Pazemenas & P. Sapranasauskas 170  
The validity of cellular structure as seen with the electron microscope. J. Appl. Phys. 23:162. 1952.
- Bang, Frederik B., Ellen Levy & George O. Gey 171  
Some observations of host-cell-virus relationship in fowl pox. I. Growth in tissue culture. II. The inclusion produced by the virus on the chick chorio-allantoic membrane. J. Immunol. 66:329-45. 3/51.
- Barbier, Marcel 172  
Eine Näherungsmethode zur Bildfehlerberechnung der Elektronenoptik. Mitt. Inst. Techn. Physik. Zürich. No. 3. 28p. 1951.
- Barbier, Marcel 173  
Calcul pratique des aberrations du troisième ordre dans les systèmes centres de l'optique électronique. Ann. Radioelec Compagn. Franc. assoc. T.S.F. 8(32):111-33. 1953.
- Barbour, E. P. & S. F. Cook 174  
The effects of low phosphorus diet and hypophysectomy on the structure of compact bone as seen with the electron microscope. Anat. Record. 118(2):215-30. 2/54.
- Barla, Endrene & Janos Spolarich 175  
Utilization of electron microscopy in wool research. Magyar Textiltech. 8:282-4. 1955.
- Barnes, William H. & Margaret S. Lambe 176  
Shadow-casting with halides in the electron microscope. Can. J. Phys. 29:491-4. 1951.
- Barnicot, N. A., M.S.C. Birbeck & F. W. Cuckow 177  
The electron microscopy of human hair pigments. Ann. Human Genet. 19(3):231-49. 1955.
- Baroni, G. & C. Castagnoli 178  
Emulsioni nucleari studiate al microscopio elettronico. Nuovo Cimento 7:364-71. 5/31/50.
- Bartholomew, J. W. & R. Levin 179  
The structure of *Saccharomyces carlsbergensis* and *S. cerevisiae* as determined by ultra-thin sectioning methods and electron microscopy. J. Gen. Microbiol. 12:473-7. 1955.
- Bartholomew, James W. & Tod Mittwer 180  
Cellular structure as revealed by ultra-violet photolysis and the electron microscope. J. Bacteriol. 64(1):1-8. 7/52.
- Bartholomew, J. W. & Tod Mittwer 181  
Demonstration of yeast bud scars with the electron microscope. J. Bacteriol. 65:272-5. 3/53.
- Bartholomew, J. W. & Tod Mittwer 182  
Electron microscope studies of nuclear changes in *Saccharomyces cerevisiae* during bud formation. Stain Technol. 29(3):121-5. 5/54.
- Bartkiewicz, S. A. 183  
An X-ray diffraction and electron microscopic study of positive lead storage-battery plates. Ph.D. dissertation Univ. Illinois, 1954. (Dissertation Abst. 15:22. 1955.)
- Barwell, C. F., I. M. Dawson & A. S. McFarlane 184  
Electron microscopy of murine psittacosis

- virus. Conf. of Electron Micros., Delft, 7/49. Proc. Amsterdam, Nijhoff, 1950. :123-6.
- Barwell, F. T., L. Grunsberg, A. A. Milne & K.H.R. Wright 185  
Application of some physical methods to lubrication research. Scientific Lubrication 7(9):13-21. 9/55.
- Bas, Enis B. 186  
Eine neue elektronenoptische Bank. Helv. Phys. Acta. 26:438. 1953. & Z. angew Phys. 6(9):404-9. 1954.
- Bas, Enis B. 187  
Die Bolzen-Kathode. Eine indirekt geheizte Wolframkathode für Elektronenkanonen. Z. angew. Phys. 7(7):337-44. 1955.
- Bassermann, Friedrich J. 188  
Beitrag zum Nachweis von Kernaquivalenten in Tuberkel-bazillen. Zentr. Bakteriolog. Parasitenk. Abt. I., Orig, 158:104-5. 1952.
- Bassermann, Friedrich J. 189  
Die mikromorphologischen Organisationsprinzipien gerichtet wachsender Mycobakterien. Beitr. Klin. Tuberk. 109:345-56. 1953.
- Bassermann, Friedrich J. 190  
Die Volutin-Nukleinsäure-Komplexe in Mykobakterien und ihre Beziehung zu kernaquivalenten Strukturen. Z. Tuberk. 103(4-5):193-202. 1953.
- Bassermann, F. J. 191  
Derzeitiger Stand unserer Kenntnisse zur Morphologie des Tuberkulose-Erregers. Therapeut. Ber. 26:141. 1954.
- Bassermann, Friedrich J. 192  
Elektronenoptische Untersuchungen zur experimentellen Tuberkelbacillen-Phagocytose. Beitr. Klin. Tuberk. 112:162-79. 1954.
- Bassermann, Friedrich J. 193  
Phänomene der mycobakteriellen Zellgrenzfläche. Beitr. Klin. Tuberk. 111:431-6. 1954.
- Bassermann, Friedrich J. 194  
Vergleichende licht- und elektronenoptische Untersuchungen zur experimentellen Tuberkulinleukolyse. Beitr. Klin. Tuberk. 112:409-18. 1954.
- Bassermann, Friedrich J. 195  
Zur Frage der Häufigkeit mycobakterieller Verzweigungsformen in der Pathogenese der Tuberkulose. Tuberkulosearzt. 8(12):754-5. 1954.
- Bassermann, F. G. 196  
Die L-Form des Tuberkuloseerregers in elektronenoptischer Darstellung. Beitr. Klin. Tuberk. 113:134-45. 1955.
- Bates, Thomas F. 197  
Electron microscopy as a method of identifying clays. California Dept. Natl. Resources, Div. Mines Bull. 169:130-50. 1955.
- Bates, Thomas F. & J. J. Comer 198  
Electron microscopy of clay surfaces. Proc. 3rd Nat'l Conf. Clays and Clay Minerals. 9p. 1955. Publ. 395, Washington, D. C., National Research Council.
- Bates, Thomas F., Fred A. Hildebrand & Ada Swineford 199  
Morphology and structure of endellite and



BATES	BEAMS
#200	#229
halloysite. <i>Am. Mineralogist</i> 35:463-84. 1950.	Baud, Charles-Albert, Jean-Claude Morard & Émile Pernoux 215 Observation au microscope électronique de la coagulation du lait par la présure. <i>Compt. rend. acad. sci.</i> 233:276-7. 7/16/51.
Bates, Thomas F., Leonard Sand & John Mink 200 Tubular crystals of chrysotile asbestos. <i>Science</i> . 111:512-3. 1950.	Baud, C. A., J. C. Morard & E. Pernoux 216 Elektronenmikroskopische Untersuchungen der Magermilchgerinnung nach der Labung. <i>Z. wiss. Mikroskop.</i> 61:290-1. 3/53.
Bayd, Ch.-A. 201 Étude de la membrane nucléaire au microscope électronique. <i>Bull. histol appl et tech. microscop.</i> 3:41-6. 3/50.	Baud, Charles-Albert & Peter W. Morgenthaler 217 Recherches sur l'ultrastructure de l'os humain fossile. <i>Arch. suisses d'anthrop. gén.</i> 17(1):52-65. 1952.
Baud, C. A. 202 La forme des espaces submicroscopiques. <i>Conf. Electron Micros.</i> , Delft, 7/49. <i>Proc. The Hague, Nijhoff</i> , 1950. :111-2.	Baud, Ch. A. & E. Pernoux 218 Sur une différence de texture des axones dans les fibres nerveuses myéliniques et amyéliniques, révélée par la microscope électronique. <i>Compt. rend. acad. sci.</i> 232:1597-9. 4/51.
Baud, Charles-Albert 203 La texture protofibrillaire du neurite. <i>Acta Anat.</i> 10(4):461-3. 1950.	Baudet, J., O. Croissant, Joly M. Dervichian 218a Variation of the size and of the size distribution of tobacco mosaic virus particles depending on the method of preparation. <i>Discussions Faraday Soc.</i> 11:236-46. 1951.
Baud, Charles-A. 204 Étude au microscope électronique de l'imprégnation argentique dichroïque des fibres nerveuses. <i>Compt. rend. ass. anat.</i> (38th meeting, Nancy, 3/19-21/51. 2p.	Bauer, Antoinette & Therese Constantin 219 Multiplication du virus de Shope dans les cellules en culture. Étude au microscope électronique. <i>Compt. rend. soc. biol.</i> 150(2):246-9. 1956.
Baud, Charles-Albert 205 Le chondriome du cylindraxe dans les fibres nerveuses des vertébrés. <i>Compt. rend. ass. anat.</i> 39th meeting, Clermont-Ferrand, 4/7-9/52. 3p.	Bawden, F. C., B. Kassanis & H. L. Nixon 220 The mechanical transmission and some properties of potato paracrinkle virus. <i>J. Gen. Microbiol.</i> 4:210-9. 5/50.
Baud, C. A. 206 Elektronenmikroskopische Studie der dichroitischen Silberfärbung tierischer Gewebe. <i>Z. wiss. Mikroskop.</i> 60:369-71. 3/52.	Bawden, F. C. & H. L. Nixon 221 The application of electron microscopy to the study of plant viruses in unpurified plant extracts. <i>J. Gen. Microbiol.</i> 5:104-9. 2/51.
Baud, Charles-Albert 207 Ultrastructure de la fibre nerveuse en rapport avec sa fonction. <i>Bull. acad. suisse sci. médicales</i> 8(5/6):426-34. 1952.	Baxter, A. S. 222 Production of small apertures by an evaporation technique. <i>Vacuum.</i> 1(2):115-7. 1951.
Baud, Ch.-A 208 Action des variations de pH du fixateur sur les structures observables au microscope électronique. <i>Compt. rend. ass. anat.</i> 40th meeting, Bordeaux, 3/30-31 & 4/1/53. 5p.	Bayle, H. & M. Bessis 223 Le spermatozoïde humain au microscope électronique. <i>Presse méd.</i> 82:1770-1. 12/25/51.
Baud, C. A. 209 La croissance du point de vue histologique et ultrastructural. <i>Schweiz med. Wochschr.</i> 83(8):185-6. 1953.	Bayley, S. T. 224 An electron microscope study of nucleic acid. <i>Nature.</i> 168:470. 9/15/51.
Baud, C. A. 210 Recherches sur la structure de la membrane nucléaire. <i>Acta Anat.</i> 17:113-74. 1953.	Bayley, S. T., E. J. Hanson & J. T. Randall 225 The spermatozoa of the snail viviparus. 1st Int. Cong. Electron Micros., Paris, 9/50, <i>Proc.</i> :619-21. Paris, Ed. Rev. Optique, 1953.
Baud, C. A. 211 Action des variations de pH du fixateur sur les structures observables au microscope électronique. <i>Compt. rend. ass. anat.</i> 78:223. 1954.	Beam, W. R. 226 A new method for magnifying electron beam images. <i>RCA Rev.</i> 16(2):242-50. 1955.
Baud, C. A. 212 Der Doppelbrechungstest als Prüfungsmittel für die Erhaltung der Zell-Ultrastruktur im Elektronenbild. <i>Z. wiss. Mikroskop.</i> 62(2):106-8. 12/54.	Beams, H. W. & Everett Anderson 227 Light and electron microscope studies on the light organ of the firefly ( <i>Photinus pyralis</i> ). <i>Biol. Bull.</i> 109(3):375-93. 12/55.
Baud, Charles Albert 213 Elektronenmikroskopischer Nachweis der Mitochondrien im Neuroplasma des Achsenzylinders. <i>Verh. anat. Ges. Mainz</i> , 51 Versamml., 4/14-7/53. :95-7.	Beams, H. W. & T. C. Evans 228 Electron micrographs of motor end-plates. <i>Proc. Soc. Exptl. Biol. Med.</i> 82(2):344-6. 2/53.
Baud, Charles-Albert, J. A. Baumann & A. Weber 214 Aperçu morphologique sur les synapses chez les vertébrés. <i>Arch. intern. physiol.</i> 59(4):64-9. 12/51.	Beams, H. W., T. C. Evans, W. W. Baker & Verne van Breemen 229 Electron micrographs of the amphister in the whitefish blastula ( <i>Coregonus clupeaformis</i> ).

Anat. Record. 107:329-45. 7/50

Beams, H. W., T. C. Evans, Verne van Breeman & W. W. Baker 230  
Electron microscopic studies on structure of mitotic figure. Proc. Soc. Exptl. Biol. Med. 74:717-20. 8/50.

Beams, H. W., Albert W. Sedar & T. C. Evans 231  
Studies on the neurons of the Grasshopper. (with special reference to the Golgi bodies, mitochondria and neurofibrillae.) La Cellule. 55(3):293-304. 1953.

Beams, Harold W. & Theodore N. Tahmisian 232  
Phase-contrast and electron microscope studies on the Golgi bodies and mitochondria of the germ cells of *Helix aspersa*. Cytologia Tokyo. 18(2):157-66. 8/53.

Beams, H. W. & T. N. Tahmisian 233  
Structure of the mitochondria in the male germ cells of *Helix* as revealed by the electron microscope. Exptl. Cell Research. 6(1):87-93. 1954.

Beams, H. W., T. N. Tahmisian & R. L. Devine 234  
Electron microscope studies on the cells of Malpighian tubules of the grasshopper (Orthoptera, Acrididae). J. Biophys. Biochem. Cytol. 1(3):197-202. 5/55.

Beams, H. W., T. N. Tahmisian & R. L. Devine 235  
Electron microscope studies on the Malpighian tubules of *Melanoplus differentialis*. Anat. Record. 121:425. 1955.

Beams, H. W., T. N. Tahmisian, R. L. Devine & L. E. Roth 236  
Phase-contrast and electron microscope studies on the nebenkern, a mitochondrial body in the spermatids of the grasshopper. Biol. Bull. 107(1):47-56. 8/54.

Beams, H. W., V. L. van Breemen & Dorothy M. Newfang 237  
A correlated study on spinal ganglion cells and associated nerve fibres with the light and electron microscopes. J. Comp. Neurol. 96:249-81. 1952.

Bear, Richard S. 238  
The structure of collagen fibrils. Advances in Protein Chem. 7:69-160. 1952.

Beard, Dorothy, E. A. Eckert, T. Z. Csáky, D. G. Sharp & J. W. Beard 239  
Particulate component of plasma from fowls with avian erythro-myeloblastic leucosis. Proc. Soc. Exptl. Biol. Med. 75:533-6. 1950.

Beard, J. W., D. G. Sharp, Edward A. Eckert, Dorothy Beard & E. B. Mommaerts 240  
Properties of the virus of the fowl erythromyeloblastic disease. Natl. Cancer Conf. 2nd Conf., Cincinnati, 1952, Proc. :1396-1411. New York, American Cancer Soc., 1954.

Beaudette, Fred Robert 241  
Psittacosis. Diagnosis, epidemiology and control. New Brunswick, N. J., Rutgers Univ. Press, 1955. 240p.

Becher, Hellmut & Klaus Hoegen 242  
Die Verwendung der Hyaluronidase für licht- und elektronenmikroskopische Präparationsmethoden biologischer Objekte. Z. wiss.

Mikroskop. 62(1):41-5. 1954.

Becher, H., K. Hoegen & G. Pfefferkorn 243  
Sublichtmikroskopisch-morphologische Untersuchungen des anorganischen Knochenanteils. Acta Anat. 20:105-15. 1954.

Becker, Joseph A. 244  
The use of the field emission electron microscope in adsorption studies of W on W and Ba on W. Bell Sys. Tech. J. 30:907-32. 10/51.

Beckett, R. J. & R. C. Croft 245  
The structure of graphite oxide. J. Phys. Chem. 56:929-35. 1952.

Beckett, Roberta & M. E. Winfield 246  
The thermal decomposition of thorium oxalate. Australian J. Sci. Research. 4(4):644-50. 1951.

Beekhuis, D. A. & J. B. Le Poole 247  
What can the electron microscope teach us about the quality of metals and metal products? Rapport Europées Congrès Toeg. Em. Gent, 4/7-10/54. :173-81.

Beekhuis, D. A. & J. A. Schuchmann 248  
Electronenmicroscopisch onderzoek van metaaloppervlakken. II. Toepassingen bij het metallonderzoek. Metaalinstituut T.N.O. Circulair 21. :10-24. 1/53.

Beermann, W. & G. F. Bahr 249  
The submicroscopic structure of the Balbiani-ring. Exptl. Cell Research. 6:195-201. 1954.

Behne, Walter & Walter Müller 250  
Elektronenmikroskopische Untersuchungen über die Morphologie von Halloysit. Naturwissenschaften. 41(6):138-40. 1954.

Beischer, Dietrich E. 251  
Electron microscopy of human plasma lipoprotein separated by ultracentrifugation. Research Rpt. Proj. No. NM 001 057.10.04. U.S. Naval School of Aviation Medicine, Pensacola, Fla. 5p. 8/15/53.

Beischer, D. E. 251a  
The influence of stress and other factors on the structure of urinary colloids. (Abstract, Paper #H13, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1466. 1954.

Beischer, D. E. & Sue Born 252  
A study of the urinary colloids in normal male subjects by electron microscopy. Joint Project Rpt. NM 001 107 500.02. Butt-Douglas Med. Foundation and U.S. Naval School of Aviation Medicine, Pensacola, Fla. 16p. 6/15/55.

Belser, Richard B. 253  
Frictional adhesion of metal to glass, quartz, and ceramic surfaces. Rev. Sci. Instr. 25(9):862-4. 9/54.

Bénard, Jacques & Jean Moreau 254  
Sur l'apparition d'un type particulier de microstructure superficielle dans un alliage nickel-chrome soumis à une réaction d'oxydation sélective. Compt. rend. acad. sci. 238:1659-61. 1954.

Benedetti, E. Lucio 255  
Ricerche sul tessuto connettivo reticolare con il microscopio elettronico - Nota I: Immagini



elettroniche della cosiddetta sostanza cementante presente nelle fibre reticolari dei linfonodi. Rend. ist. super. sanità. 16: 494-501. 1953.

Benedetti, E. L. 256  
Structure of the reticular stroma of lymph-nodes studied by means of the electron microscope. Scientia Med. Ital. 3(1). 26p. 1953.

Benedetti, E. L. 257  
Aspetti morfologici della cosiddetta "reticolina". Atti accad. pelori. Classe Sci. Med-Biol. 225:419-30. 1953-4.

Bennett, H. Stanley 258  
Modern concepts of structure of striated muscle. Am. J. Physical Med. 34:46-67. 2/55.

Bennett, H. Stanley & E. De Robertis 259  
Some details of submicroscopic morphology of cells in the earthworm nerve cord. Symposium on Fine Structure of Cells, held at 8th Congr. of Cell Biology, Leyden, 1954. :409-10. Groningen, P. Noordhoff, 1956.

Bennett, H. Stanley & Keith R. Porter 260  
An electron microscope study of sectioned breast muscle of the domestic fowl. Am. J. Anat. 93(1):61-106. 7/53.

Berger, Walter 261  
Zum Durchgang langsamer Elektronen durch Metallfolien. Ann. Physik. 15(7-8):394-405. 1955.

Berghezan, Aurel 262  
Les modifications de structure du cristal métallique et leur influence sur la cinétique du durcissement structural des solutions solides d'aluminium. Publications Scientifiques et Techniques du Ministère de l'Air (France), No. 283. 95p. 1953.

Bergold, G. H. 262a  
The multiplication of insect viruses as organisms. (Abstract, Paper #36, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:70. 1950.

Bergold, Gernot 263  
Fortschritte und Probleme auf dem Gebiete der Insektenviren. Z. angew. Entomol. 33(1/2): 267-78. 1951.

Bergold, G. H. 264  
The polyhedral disease of the spruce budworm, Choristoneura fumiferana (Clem). (Lepidoptera: Tortricidae). Can. J. Zool. 29:17-23. 1951.

Bergold, G. H. 265  
Demonstration of the polyhedral virus in blood cells of silkworms. Biochim. et. Biophys. Acta. 8:397-400. 1952.

Bergold, G. H. 266  
The multiplication of insect viruses as organisms. Can. J. Research. E. 28:5-11. 1950. and 2nd Symposium of Soc. Gen. Microbiol., 4/52. :276-80. Cambridge, University Press, 1953.

Bergold, G. H. 267  
On the nomenclature and classification of insect viruses. Ann. N. Y. Acad. Sci. 56(3): 495-516. 1953.

Bergold, G. H. & E. G. Wellington 268  
Isolation and chemical composition of the membranes of an insect virus and their relation to the virus and polyhedral bodies. J. Bacteriol. 67:210-6. 2/54.

Bernard, Michel 269  
Éléments gaussiens des lentilles à grilles. Compt. rend. acad. sci. 233:1354-6. 11/26/51.

Bernard, Michel 270  
Le potentiel axial des lentilles à grille. Compt. rend. acad. sci. 233:298-9. 7/23/51.

Bernard, Michel 271  
Sur un modèle de potentiel permettant l'étude de la lentille à trois électrodes. Compt. rend. acad. sci. 233:1438-40. 3/12/51.

Bernard, Michel 272  
Aberration de sphéricité des lentilles à grilles. Compt. rend. acad. sci. 235:1115-7. 10/11/52.

Bernard, Michel 273  
Une équation réduite des trajectoires dans un miroir électronique. Compt. rend. acad. sci. 234:606. 1952.

Bernard, Michel Yves 274  
Focalisation des particules de grande énergie par des lentilles à grille. I. La convergence des lentilles à grille. J. phys. radium. 14:381-94. 6/53.

Bernard, Michel Yves 275  
Focalisation des particules de grande énergie par des lentilles à grille. II. Défauts des lentilles. J. phys. radium. 14: 451-8. 6-9/53.

Bernard, Michel Yves 276  
Lentilles électrostatiques permettant la focalisation des particules de grande énergie: calcul des trajectoires. Compt. rend. acad. sci. 236:902-4. 3/2/53.

Bernard, René 277  
Pouvoir de résolution théorique et expérimental en microscopie électronique. 1st Int. Cong. Electron Micros., Paris, 9/50, Proc. :31-4. Ed. Rev. Optique, 1953.

Bernard, R. 278  
Bericht über die französischen Arbeiten auf dem Gebiet der Elektronenmikroskopie im Laufe des letzten Jahres. Optik. 11:118-20. 1954.

Bernard, R. & S. Bernard 279  
Microscopie électronique. Procédé d'empreinte utilisable en microscopie électronique. Compt. rend. acad. sci. 238(2): 222. 1/11/54.

Bernard, R. & S. Bernard 280  
Particularités de structure des alliages durs WC-TiC-TaC-Co mises en évidence au moyen du microscope électronique. Rapport Européen Congrès Toeg. Em. Gent, 4/7-10/54. :217-21.

Bernard, René & François Davoine 281  
Installation d'évaporation sous vide à vitesse de pompage élevée. Le Vide. 37:1136-8. 1/52.

Bernard, R. & F. Davoine 282  
Interprétation statistique des images de

dispersions observées au microscope électronique. J. phys. radium. 13:48-9. 7/52.

Bernard, R. & F. Davoine 283  
Auswertung der Elektronenbilder pulverförmiger Stoffe. Optik. 10(1-3):150-5. 1953.

Bernard, R., H. Girard, J. Hirts & C. Mackowiak 284  
Étude du virus de la fièvre aphteuse au microscope électronique. 1st Int. Cong. Electron Micros., Paris, 9/50, Proc. :607-10. Paris, Ed. Rev. Optique, 1953.

Bernard, R. & Émile Pernoux 285  
Interprétation de la structure des images électroniques. Compt. rend. acad. sci. 235: 1488-90. 10/12/52.

Bernard, R. & E. Pernoux 286  
Nouveau procédé d'investigation des franges électroniques des cristaux minces. J. phys. radium. 13:368-9. 6/52.

Bernard, R. & E. Pernoux 287  
Zum Auftreten von Schlieren bei elektronenmikroskopischer Beobachtung von sehr dünnen Kristallen. Optik. 9:1-2. 1952.

Bernard, René & Émile Pernoux 288  
Franges d'interférences obtenues par la superposition de deux faisceaux électroniques cohérents. Compt. rend. acad. sci. 236:189-91. 1/12/53.

Bernard, René & E. Pernoux 289  
Origine des franges observables sur les images électroniques des cristaux minces. 1st Int. Cong. Electron Micros., Paris, 9/50, Proc. :35-9. Paris, Ed. Rev. Optique, 1953.

Bernard, R. & E. Pernoux 290  
Ursprung des Schlierenbildes bei sehr dünnen Kristallen. Optik. 10(1-3):64-71. 1953.

Bernard, René, Émile Pernoux & S. Teichner 291  
Détermination de surfaces spécifiques au moyen du microscope électronique. Compt. rend. acad. sci. 232:1927-9. 5/21/51.

Bernard, René, Émile Pernoux & Stanislaus Teichner 292  
Application du microscope électronique à la mesure des surfaces spécifiques détermination de l'efficacité d'un broyage. J. chim. phys. 49(3):147-56. 3/52.

Bernard, R., E. Pernoux & S. Teichner 293  
Bestimmung der spezifischen Oberfläche pulverförmiger Stoffe mit dem Elektronenmikroskop. Z. wiss. Mikroskop. 60:419-21. 3/52.

Bernhard, W. 294  
Electron microscope studies on thin sections of human erythrocytes. Nature. 170: 359-60. 8/30/52.

Bernhard, W. 295  
Some electron microscope problems in cancer research. A review of recent work from the French Institute of Cancer Research at Villejuif (Paris). (Abstract, Paper #41, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1419, 11/53.

Bernhard, W. 296  
Appareil de deshydratation continue. Exptl. Cell Research. 8:248-9. 1955.

Bernhard, W. 297  
La méthode des coupes ultrafines et son application à la pathologie cellulaire. Les techniques récentes en microscopie électronique et corpusculaire, Toulouse, 4/4-8/55. Compt. rend. :163-73, Colloque du C.N.R.S.

Bernhard, W. 298  
Problèmes de la cytologie électronique de haute résolution. Bull. microscop. appl. 5(1-2):12-6. 1955.

Bernhard, W. & Antoinette Bauer 299  
Mise en évidence de corpuscules d'aspect viral dans des tumeurs mammaires de la souris. Étude au microscope électronique. Compt. rend. acad. sci. 240:1380-2. 3/21/55.

Bernhard, W. & Antoinette Bauer 300  
Nouvelles acquisitions sur l'ultrastructure des cellules tumorales. Symposium on Fine Structure of Cells, held at 8th Cong. of Cell Biology, Leyden, 1954. Ser. B21:294-304. Groningen, P. Noordhoff, 1955.

Bernhard, W., A. Bauer, A. Gropp, F. Haguénau & Ch. Oberling 301  
L'ultrastructure du nucléole de cellules normales et cancéreuses: étude au microscope électronique. Exptl. Cell Research. 9:88-100. 8/55.

Bernhard, W., Antoinette Bauer, M. Guérin & Ch. Oberling 302  
Étude au microscope électronique de corpuscules d'aspect viral dans des épithéliomas mammaires de la souris. Bull. assoc. franç. étude cancer. 42(2):163-78. 1955.

Bernhard, W., Antoinette Bauer, J. Harel & Ch. Oberling 303  
Les formes intracytoplasmiques du virus fibromateux de Shope. Étude de coupes ultrafines au microscope électronique. Bull. assoc. franç. étude cancer. 41(4):423-44. 1955.

Bernhard, W., H. Braunsteiner, H. L. Febvre & J. Harel 304  
Les leucocytes du sang humain au microscope électronique. Presse méd. 58:472-4. 4/26/50.

Bernhard, W., H. Braunsteiner, H. L. Febvre, J. Harel, R. Klein & Ch. Oberling 305  
Morphologie des cellules leucémiques au microscope électronique. Rev. hématol. 5: 746-63. 1950.

Bernhard, W., A. Dontcheff, Ch. Oberling & P. Vigier 306  
Corpuscules d'aspect viral dans les cellules du sarcome de Rous. Bull. assoc. franç. étude cancer. 40(3):311-21. 1953.

Bernhard, W. & A. Gautier 307  
Le développement des méthodes de coupes ultrafines pour le microscope électronique et leur application à l'étude du cancer. Bull. assoc. franç. étude cancer. 38(3):294-301. 1951.

Bernhard, W., A. Gautier & J. Harel 308  
Applications de la microscopie électronique à la recherche sur le cancer. Rapport Européen Congrès Toeg. Em. Gent, 4/7-10/54. :125-40.



- Bernhard, W., A. Gautier & Ch. Oberling 309  
Eléments fibrillaires de nature probable-  
ment ergastoplasmique dans le cytoplasme de  
cellule hépatique révélés au microscope élec-  
tronique. *Compt. rend. soc. biol.* 145:566-8.  
4/51.
- Bernhard, W., Alain Gautier & C. Rouiller 310  
La notion de "microsomes" et le problème  
de la basophilie cytoplasmique. Étude criti-  
que et expérimentale. *Arch. anat. micr. Par.*  
43(3):236-75. 1954.
- Bernhard, W., F. Haguenau, A. Gautier &  
Ch. Oberling 311  
La structure submicroscopique des éléments  
basophiles cytoplasmiques dans le foie, le  
pancreas et les glandes salivaires. *Z.*  
*Zellforsch.* 37:281-300. 1952.
- Bernhard, W., F. Haguenau & R. Leplus 312  
Coupes ultrafines d'éléments sanguins et  
de ganglions lymphatiques étudiées au micro-  
scope électronique. *Rev. hématol.* 10(2):267-  
82. 1955.
- Bernhard, W., F. Haguenau & Ch. Oberling 313  
L'ultra-structure du nucléole de quelques  
cellules animales, révélée par le microscope  
électronique. *Experientia.* 8(2):58. 1952.
- Bernhard, Wilhelm, Jacques Harel & Charles  
Oberling 314  
Le virus fibromateux de Shope dans des  
tumeurs malignes provoquées par lui. Étude  
au microscope électronique. *Compt. rend.*  
*acad. sci.* 239:732-4. 9/20/54.
- Bernhard, W., R. Leplus & P. E. Elbers 315  
Étude de coupes ultrafines de globules  
rouges humains au microscope électronique.  
*Acta Haematol.* 11(5):265-79. 1954.
- Bernhard, W. & H. Mangini 316  
Comparative phase contrast and electron  
microscope studies on animal cells. *Conf.*  
*of Electron Micros., Delft, 7/49. Proc. The*  
*Hague, Nijhoff, 1950. :163-5.*
- Bernhard, W. & H. Mangini 317  
Quelques considérations sur les leucocytes.  
*1st Int. Cong. Electron Micros., Paris, 9/50,*  
*Proc. :637-41. Paris, Ed. Rev. Optique, 1953.*
- Bernhard, W. & Ch. Oberling 318  
Echec de la mise en évidence de corpuscules-  
virus dans les cellules du sarcome de Rous  
examinées au microscope électronique. *Bull.*  
*assoc. franç. étude cancer.* 40(2):178-85. 1953.
- Bernick, Sol, R. F. Baker & O. Warren 318a  
Electron microscopy of dental tissues.  
(Abstract, Paper #33, Electron Microscope  
Society of America Meeting, Philadelphia,  
Pa., 12/8-10/51.) *J. Appl. Phys.* 23:162.  
1/52.
- Bernstein, Maurice H. & Daniel Mazia 319.  
The desoxyribonucleoprotein of sea urchin  
sperm. II. Properties. *Biochim. et Biophys.*  
*Acta.* 11:59-68. 1953.
- Berrian, James H. 320  
Electron microscopic structure of aortic  
elastin. *Research Rpt. Proj. No. NM 001 057.10.*  
*02. U.S. Naval School of Aviation Medicine,*  
*Pensacola, Fla. 6p. 7/15/53.*

- Berrian, James H. 321  
Electron microscopic structure of the inter-  
calated discs of mammalian cardiac muscle.  
*Research Rpt. Proj. No. NM 001 057.10.01.*  
*U.S. Naval School of Aviation Medicine, Pensa-*  
*cola, Fla. 5 p. 5/15/53.*
- Berrian, James H. 322  
The electron microscopic structure of the  
rat aorta. *Research Rpt. Proj. No. NM 001 057.*  
*10.03. U.S. Naval School of Aviation Medicine,*  
*Pensacola, Fla. 6p. 7/25/53.*
- Bertaud, W. S. 323  
A note on the composition of coccoliths  
occurring in chalk. *New Z. J. Sci. Tech.* 34B  
(4):241. 1/53.
- Bertein, François 324  
Convergence transversale créée par les  
fentes des instruments d'optique ionique.  
*Compt. rend. acad. sci.* 231:766-7. 10/16/50.
- Bertein, François 325  
Sur la suppression de la fente de sortie  
dans une source d'ions. *Compt. rend. acad.*  
*sci.* 231:1134-6. 11/20/50.
- Bertein, François 326  
Sur les aberrations des lentilles ioniques  
dans les sources d'ions. *Compt. rend. acad.*  
*sci.* 231:1448-9. 12/18/50.
- Bertein, F. 327  
Étude des lentilles faibles électrostatiques:  
la deuxième approximation. *J. phys. radium.*  
12:25A-31A. 10/51.
- Bertein, François 328  
Sur la détermination expérimentale des  
champs par la méthode électronique de Marton.  
*Compt. rend. acad. sci.* 232:491-3. 2/51.
- Bertein, F. 329  
Sur les propriétés générales des lentilles  
électroniques faibles la première approxima-  
tion. *J. phys. radium.* 12:595-601. 5/51.
- Bertein, F. 330  
Une méthode de calcul des trajectoires en  
optique électronique généralisation aux équations  
différentielles linéaires homogènes.  
*J. phys. radium.* 13(7 suppl.):91A-98A. 7-9/52.
- Bertein, François 331  
Sur certaines méthodes de détermination du  
champ sur l'axe en optique électronique.  
*Compt. rend. acad. sci.* 234:417-9. 1952.
- Bertein, F. 332  
Les trajectoires dans les lentilles électroni-  
ques: Une méthode d'approximation. *J. phys.*  
*radium.* 13:41A-49A. 2/52.
- Bertein, F. 333  
Aberrations des images électroniques des  
cathodes émissives imparfaites. *J. phys.*  
*radium.* 14:235-40. 4/53.
- Bertein, François 334  
Spectroscopie. Sur une méthode électrique  
d'amélioration du pouvoir séparateur de cer-  
taines mesures: son application à la spectro-  
metrie de masse. *Compt. rend. acad. sci.* 237:  
389-91. 8/3/53.
- Bertein, François 335  
Sur une correspondance entre lentilles

électroniques et quadripôles électriques.  
Compt. rend. acad. sci. 236:2047-9. 5/27/53.

Bertein, François 336  
Sur une représentation des lentilles optiques ou électroniques par des quadripôles formés de résistances pures. Compt. rend. acad. sci. 236:2494-6. 6/29/53.

Berwind, Theo 337  
Elektronenmikroskopische Untersuchungen am Fasersystem der Cervix uteri der Frau. Arch. Gyn&kol. 184:459-68. 1954.

Bessy, G. E. & D. C. Soul 338  
The application of methods of particle size and surface area measurement to whiting. Brit. J. Appl. Phys. Suppl. 3:S181-9. 1954.

Bessis, M. 339  
Studies in electron microscopy of blood cells. Blood. 5:1083-98. 12/50.

Bessis, M. 340  
Microscopie électronique des cellules du sang. In Encycl. Méd. Chir. Sang. 3:13000 C70:1-9. 1952.

Bessis, M. 341  
Microscopie électronique des cellules du sang. Gazzetta Sanitaria. 24(9):451-4. 1953.

Bessis, M. 342  
Études microcinématographiques et micro-électroniques dans l'anémie à cellules falciformes. In Transfus. Sang. et Actualités Hematol. :362-74. Paris, Masson et Cie. 1954.

Bessis, M. 343  
Traite de cytologie sanguine. Paris, Masson, 1954. 588p.

Bessis, Marcel 344  
Étude au microscope électronique des leucocytes ultracentrifuges. Compt. rend. acad. sci. 240:1723-5. 4/25/55.

Bessis, Marcel 345  
Phase contrast microscopy and electron microscopy applied to the blood cells. Blood. 10(3):272-86. 3/55.

Bessis, M. & J. Breton-Gorius 346  
Examen au microscope électronique des cellules des leucémies myéloïdes. Bull. microscop. appl. 5(1-2):9-11. 1955.

Bessis, Marcel and J. Breton-Gorius 347  
Examen des cellules leucémiques au microscope électronique par la méthode des coupes. Presse méd. 10:189-92. 2/9/55.

Bessis, M. & Janine Breton-Gorius 348  
Sur des formations particulières observées au microscope électronique dans certaines cellules leucémiques. Compt. rend. acad. sci. 240:459-60. 1/24/50.

Bessis, M. & J. Breton-Gorius 349  
Sur la strie bordante des érythrocytes des Amphibiens et sur de prétendus "anneaux de Cabot." Compt. rend. soc. biol. 147: 1134-6. 7/53.

Bessis, M. & M. Bricka 350  
Études au microscope électronique sur l'hémolyse, l'agglutination, la forme et la structure des globules rouges. Rev. hematol. 5:396-427. 3-4/50.

Bessis, M. & M. Bricka 351  
Les granulations des leucocytes normaux et leucémiques examinées au microscope électronique. Compt. rend. soc. biol. 144:654. 5/50.

Bessis, M. & M. Bricka 352  
Techniques pour l'observation des granulations leucocytaires au microscope électronique. Rev. hematol. 5:764-73. 5-6/50.

Bessis, M. & M. Bricka 353  
Sur le chondriome des leucocytes examinés au microscope électronique. Rev. hematol. 6(1):91-4. 1951.

Bessis, M. & M. Bricka 354  
Application des nouvelles techniques de préparation à l'étude des leucocytes et des plaquettes au microscope électronique. 1st Int. Cong. Electron Micros., Paris, 9/50, Proc. :642-9. Paris, Ed. Rev. Optique, 1953.

Bessis, Marcel, Michel Bricka & Janine Breton Gorius 355  
Examen de la surface des érythrocytes falciformes au microscope électronique. Compt. rend. acad. sci. 235:1433-4. 12/1/52.

Bessis, M., M. Bricka & J. Breton-Gorius 356  
Différents aspects de la surface des érythrocytes falciformes observés au microscope électronique. Rev. hematol. 8(2):222-9. 1953.

Bessis, M., M. Bricka, J. Breton-Gorius & J. Tabuis 357  
New observations on sickle cells with special reference to their agglutinability. Blood. 9(1):39-45. 1/54.

Bessis, M., M. Bricka & A. Dupuy 358  
Examen au microscope électronique de la surface des globules rouges. Origine des hématexodies. Compt. rend. soc. biol. 145: 1509. 10/51.

Bessis, M., M. Bricka & M. J. Gorius 359  
Étude du myélogramme au microscope électronique par la méthode des répliques. Presse méd. 60(50):1076-8. 7/26/52.

Bessis, M., M. Bricka & J. Gorius 360  
Études sur la transformation disque-sphère des globules rouges humains. 1st Int. Cong. Electron Micros., Paris, 9/50, Proc. :650-5. Paris, Ed. Rev. Optique, 1953.

Bessis, M., P. Freixa & M. Bricka 361  
Examen des cellules du sarcome de Rous au microscope électronique par une technique de dissociation des tumeurs. Rev. hématol. 8 (1):71-6. 1953.

Bessis, Marcel & Jean Paul Thiery 362  
Examen au microscope électronique des cellules leucémiques de souris de souche AK. Effets de l'ultra centrifugation. Rev. hématol. 10(3):606-13. 1955.

Bessis, M. & J.-P. Thiery 363  
Ultra-centrifugation de leucocytes normaux et leucémiques. Examen au microscope électronique. Rev. hématol. 10(3):583-605. 1955.

Bethge, H. 364  
Konstruktive Besonderheiten eines elektrostatischen Laboratorium-Mikroskopes. Optik. 10:137-42. 1953.



- Bethge, H. 365  
Verfahren und Anordnung zur Herstellung von Abdruckaufnahmen lichtmikroskopisch bestimmter Objektbereiche. *Z. wiss. Mikroskop.* 62(2):122-8. 12/54.
- Bethge, H. & K. H. Brauer 366  
Eine Plattenschleuse für elektronenoptische Geräte. *Optik.* 10:399-403. 1953.
- Betts, J. & P. B. Hosier 367  
Tool for removing the objective aperture from a type E.M.3 electron microscope. *J. Sci. Instr.* 32:490. 12/55.
- Beutelspacher, H. 368  
Elektronenmikroskopische Untersuchungen über den Filtrationsmechanismus der Membranfilter. *Kolloid-Z.* 137(1):32-3. 1954.
- Beutner, E. H., Philip E. Hartman, James Hillier & Stuart Mudd 368a  
Visualization in time sequence of intracellular events following bacteriophage infection. (Abstract, Paper #32, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) *J. Appl. Phys.* 24:115. 1953.
- Beutner, Ernst H., Philip E. Hartman, Stuart Mudd & James Hillier 369  
Light and electron microscopic studies of *Escherichia coli*-coliphage interactions. I. Preparative Method. Comparative light and electron microscopic cytology of the *E. coli* B-T<sub>2</sub> System. *Biochim et Biophys. Acta.* 10:143-52. 1953.
- Beyerdorfer, K. 370  
Über die Struktur des Graphitoxydrusses. *Optik.* 7:192-8. 4-5/50.
- Beyersdorfer, Kurt 371  
Anwendung des Elektronenmikroskops in der anorganischen Chemie. *Fortschr. chem. Forsch.* 2(1):57-91. 1951.
- Beyersdorfer, Kurt 372  
Elektronenmikroskopische Untersuchungen an Rubingläsern. *Sprechsaal.* 84(10):3-15. 1951.
- Beyersdorfer, Kurt 373  
Gegenseitige Anziehung gleicher Strukturelemente bei Kollagen-Fibrillen und Trichocysten. *Z. Naturforsch.* 6b(2):57-60. 1951.
- Beyersdorfer, Kurt 374  
Die kristallinen Ausscheidungen in den Rubingläsern und im Kupfer-Aventurin. *Silikattechnik.* 3(3):119-25. 1952.
- Beyersdorfer, K. & J. Dragesco 375  
Étude comparative des trichocystes de sept espèces de paramécies. 1st Int. Cong. Electron Micros., Paris, 9/50, Proc. :661-71. Paris, Ed. Rev. Optique, 1953.
- Beyersdorfer, Kurt & J. Dragesco 376  
Microscopie électronique des trichocystes de *Frontonia*. 1st Int. Cong. Electron Micros., Paris, 9/50, Proc. :655-60. Paris, Ed. Rev. Optique, 1953.
- Beyersdorfer, K. & Elisabeth Mülbert 377  
Die Herstellung von Gewebeschnitten zur Abbildung im Elektronenmikroskop. *Optik.* 8:278-83. 6/51.
- Bierlein, T. K. 377a  
Cathodic vacuum etching of uranium. (Abstract, Paper #D1, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) *J. Appl. Phys.* 25:1458. 1954.
- Bierlein, T. K. 378  
Investigations of microstructure of uranium-replication, cathodic vacuum etching, and optical and electron microscopy. Rpt. No. HW-34390. Richland, Wash., Hanford Atomic Products Operation, 1/18/55. 35p.
- Bieseke, John J. & Clifford E. Grey 379  
Behavior of the cell center and certain other cytoplasmic components during the mitotic cycle of Ehrlich carcinoma ascites cells. (Abstract, Paper #62, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) *J. Appl. Phys.* 24:1423. 11/53.
- Bigelow, W. C., J. A. Amy & L. O. Brockway 379a  
Microstructure of titanium-aluminum-hardened nickel-base alloys. (Abstract, Paper #3, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) *J. Appl. Phys.* 26:1391. 1955.
- Bildé, Henry & Jean Devaux 380  
Influence de la focalisation du faisceau électronique sur la finesse des raies de diffraction. *Compt. rend. acad. sci.* 230:215-7. 1/9/50.
- Bills, Alvin E. & Robert Lefker 381  
Shadowing technique for electron microscopy--a possible substitute for the high-vacuum evaporation technique. *J. Appl. Phys.* 25(7):901-3. 7/54.
- Binns, Wayne 382  
An electron micrograph of *Vibrio fetus*. *Cornell Vet.* 43:559-61. 10/53.
- Birbeck, M. S. C. 383  
Histological techniques for the electron microscope. *J. Roy. Microscop. Soc.* 71:421-8. 1951.
- Birch-Andersen, A. 384  
Reconstruction of the nuclear sites of *Salmonella typhimurium* from electron micrographs of serial sections. *J. Gen. Microbiol.* 13(2):327-9. 10/55.
- Birch-Andersen, A., O. Maaløe & F. S. Sjöstrand 385  
High-resolution electron micrographs of sections of *E. coli*. *Biochim. et Biophys. Acta.* 12:395-400. 1953.
- Bird, F. F. & K. S. Lion 386  
Ultrasonic tissue disintegrator. *Rev. Sci. Instr.* 21:189-90. 2/50.
- Bird, F. T. 387  
On the multiplication of an insect virus. *Biochim. et Biophys. Acta.* 8:360-8. 1952.
- Bird, F. T. & Mary M. Whalen 388  
A nuclear and a cytoplasmic polyhedral virus disease of the spruce budworm. *Can. J. Zool.* 32:82-6. 1954.
- Bird, F. T. & M. M. Whalen 389  
Stages in the development of two insect viruses. *Can. J. Microbiol.* 1:170-4. 1954.

BIRD  
#390

- Bird, F. T. & M. M. Whalen 390  
A virus disease of the European pine sawfly, *Neodiprion sertifer* (Geoffr.) Can. Entomologist. 85(12):433-7. 1953.
- Birks, L. S. & R. T. Seal 391  
Electron microscopy of metal samples by replica techniques. N. R. L. Report 3693. Washington, U. S. Naval Research Laboratory, 9p. 6/15/50.
- Bishop, Francis W. 392  
Photometer for electron microscope. Electronics. 23:110-1. 9/50.
- Bishop, Francis W. 393  
A revolving specimen stage for the electron microscope. Rev. Sci. Instr. 23:504-5. 9/52.
- Bishop, Francis W. 394  
An electron gun modification for the control of beam current in the RCA electron microscope. Rev. Sci. Instr. 24:72-4. 1/53.
- Bishop, Francis W. 395  
Electron-microscope power monitor. Electronics. 26:124-5. 1/53.
- Bishop, Francis W. 396  
An improved boat for collecting thin sections for electron microscopy. Rev. Sci. Instr. 24:78-9. 1/53.
- Bishop, Francis W. 397  
A new external objective aperture centering and interchanging device for the RCA EMU electron microscope. Rev. Sci. Instr. 24:269-71. 4/53.
- Bishop, F. W. 398  
Plated electron microscope specimen screens. Rev. Sci. Instr. 24:986. 10/53
- Bishop, Francis W. 399  
External condenser aperture-centering and interchanging device for the RCA EMU electron microscope. Rev. Sci. Instr. 25:188-90. 2/54.
- Bishop, Francis W. 400  
New automatic sharpener for microtome blades. Rev. Sci. Instr. 25:1190-2. 12/54.
- Bishop, F. W. 401  
Exposure timer for the electron microscope. Electronics. 28:206-7. 3/55.
- Bishop, F. W. 402  
Some modifications and techniques applied to the RCA type EMU electron microscope. UCLA No. 354. 33p. Los Angeles, Univ. of California, School of Med., Atomic Energy Project. 11/17/55.
- Bishop, Francis W. & M. L. Cook 403  
Coupled through-focus control for the RCA type EMU-2B electron microscope. Rev. Sci. Instr. 24:1064-5. 11/53.
- Bishop, F. W. & Sylvia B. Elliott 404  
A device for monitoring the stability of the power supplies of the electron microscope. UCLA No. 210. 8p. Los Angeles, Univ. of California, Atomic Energy Project. 7/25/52.
- Bishop, F. W. & Sylvia B. Elliott 405  
A revolving specimen stage for the

BLOOM  
#420

- electron microscope. UCLA No. 178. 8p. Los Angeles, Univ. of California, Atomic Energy Project. 1/23/52.
- Bishop, F. W. & Sylvia B. Elliott 406  
An external control of the spacing of the projector pole-piece elements of the RCA EMU electron microscope. Rev. Sci. Instr. 24:459-60. 6/53.
- Bisset, K. A. 407  
Observations upon the resting nucleus of the typhoid bacterium. Exptl. Cell Research 1:473-6. 8/50.
- Bisset, K. A. 408  
The evidence for mitotic spindles in bacteria. Science. 116:154-5. 1952.
- Black, L. M. 409  
Concepts and problems concerning purification of labile insect-transmitted plant viruses. Phytopathology. 45(4):208-16. 4/55.
- Black, L. M., Councilman Morgan & R.W. G. Wyckoff 410  
Visualization of tobacco mosaic virus within infected cells. Proc. Soc. Exptl. Biol. Med. 73:119-22. 1/50.
- Blank, F. 411  
On the cell walls of dimorphic fungi causing systemic infections. Can J. Microbiol. 1:1-5. 1954.
- Blank, Harvey 412  
Virus-induced tumors of human skin (warts, molluscum contagiosum). Ann. N. Y. Acad. Sci. 54:1226-31. 6/52.
- Blank, H. & G. Rake 413  
Viral and rickettsial diseases of the skin, eye and mucous membranes of man. Boston, Little, Brown & Co., 1955. 285p.
- Blaskovic, D. and V. Bystricky 414  
The morphology of Pfeiffer's *Haemophilus influenza* studied by electron microscopy. (in Russian; English summary). Folia Biol. 1(6):355-9. 1955.
- Blicharski, J. 415  
Cytologia krwi w swietle mikroskopu elektronowego. Przegl. lek. 7(6-7):57-63. 1951.
- Bloch, Edward H. & Allen Powell 416  
Electron microscopy of human erythrocytes from health and disease. (Abstract of demonstration #011, Am. Assoc. of Anatomists, 65th meeting, March 1952.) Anat. Record. 112:442. 2/52.
- Bloch, Edward H. & Allen Powell 417  
Electron microscopy of human erythrocytes from healthy and sludged blood. Science. 115:46-7. 1/11/52.
- Blois, Marsden S., Jr. 418  
An approach to the microscopy of molecules. Science. 114:175-7. 8/17/51.
- Bloom, G. 419  
The release of minute granule-containing elements from the eosinophil cells of the blood. Exptl. Cell Research. 7:125-9. 1954.
- Bloom, Gunnar 420  
Studies on the olfactory epithelium of the



frog and the toad with the aid of light and electron microscopy. *Z. Zellforsch.* 41:89-100. 1954.

Bloom, Gunnar 421  
The morphology of human blood platelets and the coagulation of human blood in vitro. An electron-microscopical examination. *Z. Zellforsch.* 42:365-85. 1955.

Bloom, G. & H. Engström 422  
The structure of the epithelial surface in the olfactory region. *Exptl. Cell Research.* 3(4):699-701. 1952.

Bloom, G. and H. Engström 423  
Interciliary structures in the epithelium of the upper part of the respiratory tract. *Ann. Otol., Rhinol. & Laryngol.* 62(1):1-2. 3/53.

Bloom, G. & U. Friberg 424  
A method for the electron microscopy of tissue mast-cells. *Experientia.* 9:310. 8/53.

Bloom, Gunnar, Ulf Friberg, Bengt Larsson & Bertil Åberg 425  
Morphology of tissue mast-cells in dog mastocytoma and clinical chemistry of these tumours. *Acta Pathol. Microbiol. Scand.* 37(2):163-6. 1955.

Bloom, Gunnar, Karl Henrik Gustavson & Åke Swensson 426  
On the reaction of the thrombocytes to submicroscopic particles in vitro. *Acta Haematol.* 13(1):57-63. 1955.

Blout, E. R. & Paul M. Doty 427  
Protein and nucleic acid conference. *Science.* 112:639-43. 12/1/50.

Boadway, J. D. 428  
A condenser aperture device for electron microscopes. *J. Appl. Phys.* 22:104-5. 1/51.

Boadway, J. D. 428a  
Electron diffraction from small areas of electron microscope specimens using an RCA electron microscope. (Abstract, Paper #3, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) *J. Appl. Phys.* 23:156. 1/52.

Bobalek, E. G., L. R. Lebras, A. S. Powell & William von Fischer 429  
Microstructure of paint films. *Ind. Eng. Chem.* 46:572-7. 3/54.

Bode, O. 430  
Das Elektronenmikroskop im Dienste der pflanzlichen Virusforschung. *Biol. Bundesanstalt Land- u. Forstwirtschaft.* 81:43-51. 1954.

Bode, O. & E. Köhler 431  
Elektronenmikroskopische Untersuchungen am Kartoffel-X- und Tabakmosaik-Virus. *Z. Naturforsch.* 7b:598-600. 11/52.

Bode, O. & H. L. Paul 432  
Elektronenmikroskopische Untersuchungen über Kartoffel-Viren. I. Vermessungen an Teilchen des Kartoffel-X-Virus. *Biochim. et Biophys. Acta.* 16:343-5. 1955.

Boersch, H. 433  
Auflösungsbegrenzung im Elektronenmikroskop durch Objectänderung. *Z. Physik.* 127:391-9. 1950.

Boersch, H. 434  
Ein Hochvakuum-Pumpstand für das Laboratorium. *Z. Physik.* 130:513-6. 1951.

Boersch, H. 435  
Eine Vakuum-Bank. *Z. Physik.* 130:517-20. 1951.

Boersch, H. 436  
Gegenfeldfilter für Elektronenbeugung und Elektronenmikroskopie. *Z. Physik.* 134:156-64. 1953.

Boersch, H. 437  
Experimentelle Bestimmung der Energieverteilung in thermisch ausgelösten Elektronenstrahlen. *Z. Physik.* 139:115-46. 1954.

Boersch, H. 438  
Image formation in the electron microscope. *Natl. Bur Standards, U. S., Circ.* 527 :127-44. 1954.

Boersch, Hans & Karl-Joseph Hanszen 439  
Abbildung von Verdampfungsquellen mit dem Lochkammerverfahren. *Z. Physik.* 139:243-50. 1954.

Boettcher, A. 440  
Elektronenmikroskopische Untersuchungen in Kautschuk verarbeiteter Füllstoffe. *Z. Kautschuk Gummi.* 4(4):1-12. 1951.

Boettcher, A. & R. Thun 441  
Kinematische Strukturuntersuchungen mit Elektronenstrahlen. *Optik.* 11:22-31. 1954.

Bohlke-Berlin, E. 442  
Elektronenmikroskopische Sputumuntersuchungen an Tuberkelbacillen bei Rimifonbehandlung. *Beitr. Klin. Tuberk.* 111:49-52. 1954.

Bolduan, Orvil E. A., Torsti P. Salo & Richard S. Bear 443  
X-ray diffraction studies of the penetration of stains and tans into collagen fibrils. *J. Am. Leather Chemists' Assoc.* 46(2):124-38. 2/51.

Bolt, W., O. Küchenhoff & T. Küchenhoff 444  
Zur Darstellung von Gewebezellen im Elektronenmikroskop. *Z. ges. inn. Med. u. ihre Grenzgebiete.* 9(5):248. 1954.

Bolt, W., O. Küchenhoff & T. Vogel. 445  
Elektronenoptische Studien über Grippevirus und das Bindungs-Lösungsphänomen an der Erythrozytenmembran. *Optik.* 7(4-6):328. 4-5/50.

Bolt, W., O. Küchenhoff & T. Vogel 446  
Elektronenoptische Studien über Grippevirus und das Bindungs-Lösungsphänomen an der Erythrozytenmembran. *Deut. med. Wschr.* 76:17-8. 1/5/51.

Bolt, W., O. Küchenhoff & T. Vogel 447  
Quantitative Untersuchungen über die Bindungsverhältnisse von Grippevirus an der Erythrozytenmembran. *Z. wiss. Mikrosk.* 60:364-8. 3/52.

Bolt, W., O. Küchenhoff & T. Vogel 448  
Zur Isolierung des Grippevirus. *Die Medizinische.* 4:118. 1/26/52.

Bomplani, G. D. 449  
Ricerche sulla ultrastruttura della fibra muscolare striata nella avitaminosi E sperimentale del coniglio. *Rend. ist super. sanità.* 17(11):1021-34. 1954.

- Bonadonna, Telesforo 450  
Di una particolare formazione alla testa del nemaspermio bovini (knobbed) messa in evidenza al microscopio elettronico. Riv. biol. Perugia. 47(2):297-301. 1955.
- Bondi, A., A. M. Cravath, R. J. Moore & W. H. Peterson 451  
Basic factors determining the structure and rheology of lubricating greases. The Institute Spokesman, Natl Lubricating Grease Inst. 13(12):12-8. 1950.
- Bonifas, V. & E. Kellenberger 452  
Étude de l'action des membranes du bacteriophage T<sub>2</sub> sur *Escherichia coli*. Biochim. et Biophys. Acta. 16:330-8. 1955.
- Bonifas, Valentin, Edouard Kellenberger & Georges H. Werner 452a  
Production of external and internal filamentous structures in a non-ciliated strain of "Bacillus subtilis." (Abstract, Paper #27, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:113. 1951.
- Bonstedt, B. E. 453  
A method of finding a wide class of electrostatic and magnetic fields for which the solutions of the basic equation of electron optics are expressed by means of known functions. (in Russian) Zh. Tekh. Fiz. 25:541-3. 1955.
- Booker, C. J. L., J. L. Wood & A. Walsh 454  
Electron micrographs from thick oxide layers on aluminium. Nature. 176:222. 7/30/55.
- Borasky, Rubin 454a  
Extensible area specimen holder for RCA-EMU models electron microscope. (Abstract, Paper #A9, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1454. 1954.
- Borysko, E. 455  
An electron microscope study of the giant chromosomes of diptera by means of sections. Bull. Johns Hopkins Hosp. 92(2):151-69. 2/53.
- Borysko, Emil 455a  
Hypothesis for the mechanism of polymerization damage occurring during the embedding of cells in methacrylates. (Abstract, Paper #23, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26:1394. 1955.
- Borysko, Emil 455b  
Phase contrast microscope study of gross structural changes occurring during the preparation of cells for thin sectioning by means of the methacrylate embedding technique. (Abstract, Paper #22, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26:1394. 1955.
- Borysko, E. & F. B. Bang 456  
Structure of the nucleolus as revealed by the electron microscope. Bull. Johns Hopkins Hosp. 89(6):468-73. 12/51.
- Borysko, E. & F. B. Bang 456a  
Electron microscope observations on nucleolar structure. (Abstract, Paper #41, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:163. 1/52.

- Borysko, Emil & Frederik B. Bang 457  
The fine structure of the chorio-allantoic membrane of the normal chick embryo. A control study for virus work. Bull. Johns Hopkins Hosp. 92:257-89. 4/53.
- Borysko, Emil & Peter Sapranaukas 458  
A new technique for comparative phase-contrast and electron microscope studies of cells grown in tissue culture, with an evaluation of the technique by means of time-lapse cinemicrographs. Bull. Johns Hopkins Hosp. 95(2):68-79. 8/54.
- Bosshard, Hans Heinrich 459  
Elektronenmikroskopische Untersuchungen im Holz von *Fraxinus excelsior* L. Ber. Schweiz. botan. Ges. 62:482-508. 1952.
- Boswell, F. W. C. 460  
A standard substance for precise electron diffraction measurements. Phys. Rev. 80:91-2. 10/1/50.
- Boswell, F. W. C. 461  
Precise determination of lattice constants by electron diffraction and variations in the lattice constants of very small crystallites. Proc. Phys. Soc. London. 64A:465-76. 1951.
- Botty, M. C., T. G. Rochow & F. G. Rowe 461a  
Recent advances in electron-microscopical resinography. (Abstract, Paper #48, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:72. 1950.
- Boult, E. H. & H. R. Thirsk 462  
The application of electron optical techniques in electrochemistry. J. Photo. Sci. 3:140-3. 1955.
- Boult, E., H. R. Thirsk & H. E. Blayden 463  
Nature of the solution obtained by pyridine extraction of coal. Nature. 170:317-8. 8/23/52.
- Bourelly, Pierre & Jean Dragesco 464  
Contribution à la connaissance d'une algue barissime *Phaeodactylum tricornutum* Bohlin. Bull. microscop. appl. 5(3-4):41-4. 1955.
- Bowden, F. P. & K. Singh 465  
Irradiation of explosives with high-speed particles and the influence of crystal size on explosion. Proc. Roy. Soc. London. 227A:22-37. 1954.
- Bowers, Landon E., R. H. Weaver, E. A. Gula & O. F. Edwards 466  
Studies on a strain of *Caulobacter* from water. I. Isolation and identification as *Caulobacter vibrioides* Henrici and Johnson with emended description. J. Bacteriol. 68(2):194-200. 1954.
- Boyd, J. D. & A. F. W. Hughes 467  
Observations on human chorionic villi using the electron microscope. J. Anat. 88(3):356-62. 1954.
- Braams, W. G. & J. D. Verlinde 468  
An electron microscopic study of vaccinia virus. Rapport Europées Congrès Toeg. Em. Gent, 4/54. :141-5.
- Braarud, Trygve 469  
Coccolith morphology and taxonomic position of *Hymenomonas roseola* Stein and *Syracosphaera carterae* Braarud and Fagerland. Nytt Mag.



Botanikk. 3:1-4. 1954.

Braarud, Trygve 470  
Studiet av planktonalger i elektronmikroskop. Blyttia. 2:102-8. 1954.

Braarud, Trygve 471  
Electron microscopy in oceanographic research. In "Papers In Marine Biol. and Oceanography." (Supplement to Deep Sea Research.) 3:479-81. London, Pergamon Press, 1955.

Braarud, T., K. Ringdal Gaarder, J. Markali & E. Nordli 472  
Coccolithophorids studied in the electron microscope. Observations on *Coccolithus huxleyi* and *Syracosphaera carterae*. Nytt Mag. Botanikk. 1:129-34. 1953.

Braarud, T. & E. Nordli 473  
Coccoliths of *Coccolithus huxleyi* seen in an electron microscope. Nature. 170:361-2. 8/30/52.

Bradfield, J. R. G. 474  
New features of protoplasmic structure observed in recent electron microscope studies. Quart. J. Microscop. Sci. 94(4):351-67. 12/53.

Bradfield, J. R. G. 475  
Electron microscopic observations on bacterial nuclei. Nature. 173:184-6. 1/30/54.

Bradfield, J. R. G. & D. B. Cater 476  
Electron-microscopic evidence on the structure of spirochaetes. Nature. 169:944-6. 6/7/52.

Bradford, E. B. 476a  
Electron microscope study of plasticized latexes. (Abstract, Paper #24, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:159. 1/52.

Bradford, E. B. 477  
Electron microscope study of plasticized latexes. J. Appl. Phys. 23:609-12. 6/52.

Bradford, E. B. & J. W. Vanderhoff 478  
Electron microscopy of monodisperse latexes. J. Appl. Phys. 26:864-71. 7/55.

Bradford, E. B., J. W. Vanderhoff, T. Alfrey, Jr. & J. F. Vitkuske 478a  
Use of monodisperse latexes in an electron microscope investigation of the mechanism of emulsion polymerization. (Abstract, Paper #11, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26:1392. 1955.

Bradley, D. E. 479  
A new method of making electron microscope specimen support films. Nature. 171:1076-7. 6/13/53.

Bradley, D. E. 479a  
The carbon replica method. (Abstract, Paper #A24, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1456. 1954.

Bradley, D. E. 480  
Evaporated carbon films for use in electron microscopy. Brit. J. Appl. Phys. 5:65-6. 2/54.

Bradley, D. E. 481  
An evaporated carbon replica technique for use with the electron microscope and its application to the study of photographic grains.

Brit. J. Appl. Phys. 5:96-7. 3/54.

Bradley, D. E. 482  
A high resolution evaporated-carbon replica technique for the electron microscope. J. Inst. Metals. 83:35-8. 1954-55.

Bradley, D. E. 483  
Progressive etching effects on a selected area of pearlitic steel revealed by the electron microscope. Metallurgia. 203-4. 10/55.

Bradley, D. E. 484  
Quelques nouvelles techniques de réplique. "Les techniques récentes en microscopie électronique et corpusculaire," Toulouse, 4/4-8/55. :145-50. Colloque intern. centre natl recherche sci, Paris.

Bradley, D. E. 485  
A replica technique for "reflexion" electron microscopy. Brit. J. Appl. Phys. 6:191-5. 6/55.

Bradley, D. E. 486  
A simple adaptation of the carbon replica technique for the examination of selected areas in the electron microscope. Brit. J. Appl. Phys. 6:430-2. 12/55.

Bradley, D. E. 487  
Use of carbon replicas in the electron microscopy of yeast bud scars. Research Correspondence. 8:A1-A3. 12/55.

Bradley, D. E. 488  
Use of replicas in the examination of fibres by reflection electron microscopy. Research Correspondence. 8:S12-S13. 3/8/55.

Bragg, W. L. 489  
Microscopy by reconstructed wave-fronts. Nature. 166:399-400. 9/2/50.

Bragg, W. L. & G. L. Rogers 490  
Elimination of the unwanted image in diffraction microscopy. Nature. 167:190. 2/3/51.

Brakke, M. K., L. M. Black & Ralph W. G. Wyckoff 491  
The sedimentation rate of potato yellow-dwarf virus. Am. J. Botany. 38:332-42. 5/51.

Brakke, Myron K., E. E. Vatter & L. M. Black 492  
Size and shape of wound-tumor virus. Brookhaven Symposia in Biol. 6:137-56. 1954.

Bramao, Luis, J. G. Cady & S. B. Hendricks 492a  
Criteria for the characterization of kaolinite, halloysite, and a related mineral in clays and soils. (Abstract, Paper #28, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:160. 1/52.

Bramao, Luis, J. G. Cady, S. B. Hendricks & Max Swerdlow 493  
Criteria for the characterization of kaolinite, halloysite, and a related mineral in clays and soils. Soil. Sci. 73(4):273-87. 4/52.

Brandes, J. 494  
Elektronenmikroskopischer Nachweis von Pflanzenviren in ihren Wirtszellen. Naturwissenschaften. 42(4):101. 1955.

Brandes, J., W. Schwartz & W. Flaig 495  
Licht- und elektronenoptische Untersuchungen zur Struktur der Kernäquivalente von Bakterien. Zentr. Bakteriell. Parasitenk. Abt. 2 Orig. 108:672-87. 1955.

- Brandes, J. & L. Quantz 496  
Elektronenmikroskopische Untersuchungen  
über Buschbohnenviren (Phaseolus-Virus I und  
Phaseolus-Virus 2). Naturwissenschaften. 42  
(21):588. 1955.
- Brandes, J. & K. Zimmer 497  
Elektronenmikroskopische Untersuchungen  
über die viröse Vergilbungskrankheit der Rübe  
(beet yellows). Phytopathol. Z. 24(2):211-5.  
1955.
- Braun, H. 498  
Elektronenmikroskopische Beobachtungen an  
Geisseln von *E. coli*. Naturwissenschaften 42  
(15):444-6. 1955.
- Braunsteiner, H. 499  
Hämatologische Forschung im Elektronenmikro-  
skop. Wien. Z. inn. Med. 31:450-6. 11/50.
- Braunsteiner, H. 500  
Über die Morphologie der Leukocyten im Elek-  
tronenmikroskop. Acta Haematol. 3:163-7. 1950.
- Braunsteiner, H. 501  
Weitere Untersuchungen von Thrombocyten im  
Elektronenmikroskop. Acta Haematol. 3:170-3.  
1950.
- Braunsteiner, H. 502  
Über Morphologie, Physiologie und Pathologie  
der Thrombocyten. Klin. Wochschr. 29:335-8.  
5/15/51.
- Braunsteiner, H. 503  
Some clinical applications of the electron  
microscope. (Abstract, Paper #59, Electron  
Microscope Society of America Meeting, Pocono  
Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:  
1422. 11/53.
- Braunsteiner, H. & W. Bernhard 504  
Reticulocyten und Innenkörper im Elektronen-  
mikroskop. Acta Haematol. 3:167-70. 1950.
- Braunsteiner, H. & H. Febvre 505  
Thrombocyten und Fibrinbildung im Elektronen-  
mikroskop. Acta Haematol. 3:174-8. 1950.
- Braunsteiner, H., H. L. Febvre & R. Klein 506  
Observation des thrombocytes au microscope  
électronique et étude de leurs rapports avec  
la coagulation à l'état normal et dans quelques  
états pathologiques. Proc. 3rd Congress Inter-  
national Society of Hematology, 1950. :511-3.  
New York, Grune & Stratton, 1951.
- Braunsteiner, H., K. Fellingner & F. Pakesch 507  
Demonstration of a cytoplasmic  
structure in plasma cells. Blood. 8(10)  
:916-22. 10/53.
- Braunsteiner, H., K. Fellingner & F. Pakesch 508  
Electron microscopic observations on  
the thyroid. Endocrinology. 53(2):123-33.  
8/53.
- Braunsteiner, H., K. Fellingner & F. Pakesch 509  
Elektronenmikroskopische Beobachtungen  
an normalen Leberschnitten sowie nach Gallen-  
stauung, Histamin- und Allylformiatvergiftung.  
Z. ges. exptl. Med. 121:254-65. 1953.
- Braunsteiner, H., K. Fellingner & F. Pakesch 510  
Elektronenmikroskopische Beobachtungen  
der Blutplättchen bei Thrombasthenie. Klin.  
Wochschr. 31(1/2):21-4. 1953.

- Braunsteiner, H., K. Fellingner & F. Pakesch 511  
Elektronenmikroskopische Untersuchungen des  
Knochenmarkes. Deut. Arch. klin. Med. 200:  
541-9. 1953.
- Braunsteiner, H., K. Fellingner & F. Pakesch 512  
Ergebnisse und Probleme histologischer Unter-  
suchungen im Elektronenmikroskop. Klin. Wochschr.  
31:357-65. 4/15/53.
- Braunsteiner, H., K. Fellingner & F. Pakesch 513  
Structural changes in the platelets as ob-  
served by electron microscopy. Blood. 9(6):  
595-601. 6/54.
- Braunsteiner, H., K. Fellingner & F. Pakesch 514  
Elektronenmikroskopische Beobachtungen der  
Mitochondrien in der Zona fasciculata der  
Nebennierenrinde. Wien. Z. inn. Med. 36(7)  
:281-8. 1955.
- Braunsteiner, H., K. Fellingner & F. Pakesch 515  
Elektronenmikroskopische Untersuchungen der  
Prostata und der Samenblase. Wien. klin.  
Wochschr. 67(38):761-3. 1955.
- Braunsteiner, H., K. Fellingner & F. Pakesch 516  
Probleme elektronenmikroskopischer Gewebs-  
untersuchungen für Fragen der internen Medizin.  
Z. wiss. Mikroskop. 62(3):173-9. 1/55.
- Braunsteiner, H., F. Mlczoch & W. Zischka 517  
Elektronenmikroskopische Untersuchungen über  
die Wirkung von INH (Riminfon) auf die Tuber-  
kelbazillen. Schweiz. Z. Tuberk. 10(2):91-8.  
1953.
- Braunsteiner, H. & F. Pakesch 518  
Elektronenmikroskopische Untersuchung der  
Wirkung eines starken Plättchenagglutinins bei  
essentieller Thrombopenie auf normale Plättchen.  
Klin. Wochschr. 32(3/4):79-81. 1/54.
- Braunsteiner, Herbert & Franzisko Pakesch 519  
Electron microscopy and the functional sig-  
nificance of a new cellular structure in plasmo-  
cytes: a review. Blood. 10(6):650-4. 6/55.
- Braunsteiner, H. & F. Pakesch 520  
Elektronenmikroskopische Untersuchungen bei  
Thrombopathien. Hämorrhagische Diathesen, Intern.  
Symposium, Wien, 2/4-5/55. :52-6. Wien, Springer,  
1955.
- Brauss, Wilhelm 521  
Elektronenoptische Beobachtungen an Coli-  
Bakterien. Zent. Bakteriell. Parasitenk. Abt. I,  
Orig. 158:339-42. 1952.
- Brauss, Friedrich Wilhelm & Helmut Berndt 522  
Antigengewinnung mittels Ultraschall. Arch.  
Hyg. u. Bakteriell. 134(3):211-5. 1951.
- Breese, Sydney S., Jr. & Angela Briefs 523  
Certain physical properties of a Herpangina  
strain and a Pleurodynia strain of Coxsackie  
virus. Proc. Soc. Exptl. Biol. Med. 83:119-22.  
1953.
- Breese, Sydney S., Jr. & Angela Briefs 523a  
Electron microscopy of Coxsackie virus.  
(Abstract, Paper #30, Electron Microscope Soc-  
iety of America Meeting, Cleveland, Ohio, 11/6-8/  
52.) J. Appl. Phys. 24:115. 1953.
- Breese, Sydney S., Jr., William S. Gochenour,  
Jr. & Robert H. Yager 524  
Electron microscopy of leptospiral strains.



- Proc. Soc. Exptl. Biol. Med. 80:185-8. 6/52.
- Bremmer, H. 525  
The derivation of paraxial constants of electron lenses from an integral equation. Appl. Sci. Research. 2B:416-28. 1952.
- Bremmer, H. 526  
Eine einfache Näherungsformel für die Feldverteilung längs der Achse magnetischer Elektronenlinsen mit ungesättigten Polschuhen. Optik. 10:1-4. 1953.
- Bremmer, H. 527  
Théorie des franges de fresnel en microscopie électronique. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :40-5. Paris, Ed. Rev. Optique, 1953.
- Brenet, J., H. Forestier & J. Boissier 528  
Etude de bioxydes de manganese dépolarisants par microscopie électronique et diffraction d'électrons. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :297-303. Paris, Ed. Rev. Optique, 1953.
- Bretschneider, L. H. 529  
Elektronenmikroskopische Strukturuntersuchung an Spermien. Koninkl. Ned. Akad. Wetenschap. Proc. 53:531-43. 1950.
- Bretschneider, L. H. 530  
Elektronenmikroskopische Untersuchung der Pflanzenzellen. Koninkl. Ned. Akad. Wetenschap. Proc. 53:1476-89. 1950.
- Bretschneider, L. H. 531  
Elektronenmikroskopische Untersuchung einiger Ziliaten. Mikroskopie. 5:257-69. 1950.
- Bretschneider, L. H. 532  
Die elektronenoptische Untersuchung von Gewebeschnitten. Koninkl. Ned. Akad. Wetenschap. Proc. 53:675-84. 1950.
- Bretschneider, L. H. 533  
Die Herstellung von dünnen Gewebsschnitten und ihre Untersuchung mit dem Elektronenmikroskop. Mikroskopie. 5:15-31. 1950.
- Bretschneider, L. H. 534  
Microtome sections of animal tissues. Conf. of Electron Micros., Delft, 7/49. Proc. The Hague, Nijhoff, 1950. :104-6.
- Bretschneider, L. H. 535  
Die elektronenoptische Feinstruktur von organischen Kolloiden und dem Grundcytoplasma. Koninkl. Ned. Akad. Wetenschap. Proc. 54:89-101. 1951.
- Bretschneider, L. H. 536  
The electron microscopic investigation of tissue sections. Intern. Rev. Cytol. 1:305-22. 1952.
- Bretschneider, L. H. 537  
The fine structure of protoplasm. In Survey of Biological Progress. 2:223-57. New York, Academic Press, 1952.
- Bretschneider, L. H. 538  
Die polarisationsoptischen Untersuchungen W. J. Schmidt's und ihre Bedeutung für die Elektronenmikroskopie. Ber. oberhess. Ges. Natur- u. Heilk. Giessen. Naturw. Abt. 27:13-31. 1954.

- Bretschneider, L. H. 539  
Die submikroskopische Struktur der Darmzelle von Ascaris Suilla. Eine elektronenoptische Analyse. I und. II. Koninkl. Ned. Akad. Wetenschap. Proc. Ser. C. 57(4):524-39. 1954.
- Bretschneider, L. H. & P. F. Elbers 540  
Elektronenmikroskopische Zellanalyse nach der Gefriertrockenmethode. Koninkl. Ned. Akad. Wetenschap. Proc. Ser. C. 55:675-88. 1952.
- Bricka, M. & J. Tabuis 541  
Techniques d'empreintes pour objets biologiques. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :586-91. Paris, Ed. Rev. Optique, 1953.
- Briefs, Angela, S. S. Breese, J. Warren & R. J. Huebner 542  
Physical properties of two group A Coxsackie (herpangina) viruses when propagated in eggs and mice determined by ultracentrifugation and electron microscope. J. Bacteriol. 64:237-46. 1/52.
- Brieger, E. M., V. E. Cosslett & Audrey M. Glauert 543  
Action of antibiotics on avian tubercle bacilli studied with the electron microscope. Nature. 171:211. 1/31/53.
- Brieger, E. M., V. E. Cosslett & J.A. R. Miles 544  
Electron microscopy of the granular forms of micro. bact. tuberculosis (sic), in vivo and in vitro. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :716-24. Paris, Ed. Rev. Optique, 1953.
- Brieger, E. M., V. E. Cosslett & Audrey M. Glauert 545  
Reproductive changes in avian tubercle bacilli studied with the electron microscope. J. Gen. Microbiol. 10(2):294-303. 4/54.
- Brieger, E. M. & Audrey M. Glauert 546  
A study of reproduction of the tubercle bacillus. Tubercle. 34:128-38. 5/53.
- Brieger, E. M. & Audrey M. Glauert 547  
The demonstration of tubercle bacilli in ultra-thin sections of infected tissues by electron microscopy. Tubercle. 35(4):80-5. 4/54.
- Bringmann, Gottfried 548  
Elektronenmikroskopische Studien über die Kernaquivalente und die Zellorganisation von Bacillus polymyxa Prazmowski und anderen Bazillen. Zbl. Bakteriöl. Parasitenk. Abt. I. Orig. 156: 547-56. 1951.
- Bringmann, Gottfried 549  
Über elektronenmikroskopische Feinstrukturen der Membranscheiden von Oscillatoren. Z.wiss Mikroskop. 60:83-4. 2/51.
- Bringmann, Gottfried 550  
Elektronenmikroskopische Beobachtungen über den Einfluss von Striptomycin, PAS, Conteben und Solvoteben auf die Entwicklung von Mycobacterium avium Chester. Z. Hyg. Infektionskrankh. 135:505-25. 1952.
- Bringmann, Gottfried 551  
Licht- und elektronenmikroskopische Studien an Antibiotica-Formen von Coli-Bakterien. Zentr. Bakteriöl. Parasitenk. Abt. I. Orig.:157-577-85. 2/29/52.

- Bringmann, Gottfried 552  
Die Organisation der Kernaquivalente der Spaltpflanzen unter Berücksichtigung elektronenmikroskopischer Befunde. Zentr. Bakteriöl. Parasitenk. Abt. I. Orig. 107:40-70. 1952.
- Bringmann, Gottfried 553  
Elektronenmikroskopische Analyse der Wirkung von Neoteben auf *Mycobacterium avium* Chester. Zentr. Bakteriöl. Parasitenk. Abt. I. Orig. 159:521-6. 1953.
- Bringmann, Gottfried 554  
Elektronenmikroskopische Befunde zur Wirkung von Chlor, Brom, Jod, Kupfer, Silber und Wasserstoffsuperoxyd auf *E. coli*. Z. Hyg. Infektionskrankh. 138:155-66. 11/53.
- Bringmann, Gottfried 555  
Die Morphologie der Leukothiabakterien im elektronenmikroskopischen Bild. Zentr. Bakteriöl. Parasitenk. Abt. I. Orig. 107:81-4. 1953.
- Bringmann, Gottfried 556  
Elektronenmikroskopische Befunde zur Rückwandlung von L-Formen des *B. proteus* zu Normalformen. Zentr. Bakteriöl. Parasitenk. Abt. I. Orig. 160(7/8):507-11. 1954.
- Bringmann, G. 557  
Zur Interpretation elektronenmikroskopischer Bakterienbilder insbesondere der Coli-Gruppe. Z. Hyg. Infektionskrankh. 139(2):155-9. 3/54.
- Bringmann, G. 558  
Zur Pleomorphie von *E. coli* unter Einfluss geringer Mengen Athylalkohol. Zentr. Bakteriöl. Parasitenk. Abt. 2. Orig. 107:497-501. 1954.
- Bringmann, Gottfried & Joachim Holz 559  
Licht- und elektronenmikroskopische Untersuchungen zum Sero-Farbttest auf Toxoplasmose nach Sabin und Feldman. Z. Hyg. Infektionskrankh. 138:151-4. 11/53.
- Bringmann, G. & J. Holz 560  
Elektronenmikroskopische Befunde über Kleinformen der Sarcosporidien. Z. Hyg. 139:309-16. 4/54.
- Brinton, Charles C., Anne Buzzell & Max A. Lauffer 561  
Electrophoresis and phage susceptibility studies on a filament-producing variant of the *E. coli* B. bacterium. Biochim. et Biophys. Acta. 15:533-42. 12/54.
- Brockes, A., M. Knoch & H. König 562  
Veränderungen organischer Präparate im Elektronenmikroskop als Kriterium für die Objektbelastung. Z. wiss. Mikroskop. 62(7):450-64. 1955.
- Brockway, L. O. & W. C. Bigelow 563  
The investigation of the minor phases of heat-resistant alloys by electron diffraction and electron microscopy. Wright Air Develop. Center Tech. Rpt. 54-589. 71p. 5/55.
- Brøndsted, H. V. & F. E. Carlsen 564  
A cortical cytoskeleton in expanded epithelium cells of sponge gemmules. Exptl. Cell Research. 2:90-6. 1951.
- Brown, A. A., L. J. Neelands & H. E. Farnsworth 565  
Thermionic work function of the (100) face of a tungsten single crystal. J. Appl. Phys. 21:1-4. 1/50.
- Brown, Arthur F. 566  
Elementary slip processes in aluminium as shown by the electron microscope. In Metal-lurgical Applications of the Electron Microscope. Institute of Metals Monograph and Report Series No. 8. :103-14. London, 1950.
- Brown, A. F. 567  
Slip bands and hardening processes in aluminium. J. Inst. Metals. 80:115-24. 1951-2.
- Brown, A. F. 568  
Déformations des métaux sans bandes de glissements apparentes. 1st Int. Cong. Electron Microsc., Paris, 9/50, Proc. :380-5. Paris, Ed. Rev. Optique, 1953.
- Brown, A. F. 569  
Répliques à grand pouvoir de résolution pour le microscope électronique. 1st Int. Cong. Electron Microsc., Paris, 9/50, Proc. :386-90. Paris, Ed. Rev. Optique, 1953.
- Brown, A. F. & R.W.K. Honeycombe 570  
Micro-slip in metal crystals. Phil. Mag. 7(42):1146-9. 1951.
- Brown, G. L., S. Fitton Jackson & J. Chayen 571  
Cytoplasmic particles in bean root cells. Nature. 171:1113. 6/20/53.
- Brown, Harley P. & Avalee Cox 572  
An electron microscope study of protozoan flagella. Am. Midland Naturalist. 52(1):106-17. 1954.
- Brown, J. F. & D. Clark 573  
Identification and crystal habit of chromium carbide,  $\text{Cr}_{23}\text{C}_6$ , as determined by electron diffraction. Nature. 167:728. 5/5/51.
- Brown, J. F. & D. Clark 574  
The use of the three-stage electron microscope in crystal structure analysis. Acta Cryst. 5:615-9. 9/10/52.
- Bruaux, A. 575  
Un microscope électronique de construction Belge; Ses applications industrielles. Rapport Europées Congrès Toeg. Em. Gent, 4/7-10/54. :327-36.
- Brüche, E. 576  
Mikroskopie mit kurzweilliger Strahlung. Teil I. II. and III. Physik. Bl. 8(5):206-16. 1952, and 8(7):313-22. 1952.
- Brüche, E. 577  
Glas hat eine "weiche" Oberfläche Untersuchungen im Elektronenmikroskop. Umschau 5:140-2. 1955.
- Brüche, E. 578  
Mikro-Hochdruckphysik bei technischen Oberflächen. Werkstattstechnik u. Maschinenbau. 45(6):271-5. 1955.
- Brüche, E. 579  
Was ist und was leistet das Elektronenmikroskop? CIBA-Blätter. No. 138. 7-8/55. 4p.
- Brüche, Ernst 580  
Wie schneidet man Glas? Orion. 10(9/10):347-51. 1955.
- Brüche, E. 581  
Zur Betrachtung technischer Oberflächen. Werkstattstechnik u. Maschinenbau. 45(3):112-6. 1955.



- Brüche, E. & H. Poppa 582  
Das Elektronenmikroskop und die geglänzte Metalloberfläche. Metalloberfläche. 9(9): 129-35. 1955.
- Brüche, Ernst & Helmut Poppa 583  
Elektronenmikroskopische Studie zum Polieren von Glas. Silikat Tech. 6:378-84. 1955.
- Brüche, Ernst & Helmut Poppa 584  
Das Polieren von Glas. Teil I. Optische Politur. Glastechn. Ber. 28(6):232-42. 1955.
- Brüche, Ernst & Gerhard Schimmel 585  
Über das Ritzen von Glas unter  $1\mu$  Ritzspurbreite. Glastechn. Ber. 27(7):239-47. 1954.
- Brüche, E. & G. Schimmel 586  
Über die Härte der Glasoberfläche. Z. angew. Phys. 7(8):378-85. 1955.
- Bruck, Henri & Pierre Grivet 587  
Sur la lentille électrostatique. Rev. opt. 29(3):164-70. 1950.
- Brues, Austin M. & Leola Rietz 588  
Isolation and morphology of mammalian chromosomes. Cancer Research. 10:206. 4/50.
- Brunt, J. J. & A. N. Downer 589  
An examination of weld metal by means of the electron microscope. Nature. 167:646-7. 4/21/51.
- Bryant, M. P. 590  
The isolation and characteristics of a spirochete from the bovine rumen. J. Bacteriol. 64(3):325-33. 9/52.
- Bryant, P. J., H. U. Rhoads & A. H. Weber 591  
Electron beam effects on thin evaporated bismuth films. J. Appl. Phys. 25(10):1343-4. 10/54.
- Bucher-Zimmermann, Regula 592  
Elektronenmikroskopische Untersuchungen von Erythrocyten unter spezieller Berücksichtigung der Kälteagglutination. Helv. Med. Acta. 21(3):259-91. 1954.
- Bucknell, G. L. & G. A. Geach 593  
Observations on the age-hardening process in an aluminium-copper alloy. In Metallurgical Applications of the Electron Microscope. Institute of Metals Monograph and Report Series No. 8. :97-102. London, 1950.
- Buddle, M. B. & B. W. Boyes 594  
A Brucella mutant causing genital disease of sheep in New Zealand. Australian Vet. J. 29(6):145-53. 1953.
- Buerger, M. J. 595  
Generalized microscopy and the two-wave-length microscope. J. Appl. Phys. 21:909-17. 9/50.
- Bunting, Henry 596  
Close-packed array of virus-like particles within cells of a human skin papilloma. Proc. Soc. Exptl. Biol. Med. 84:327-32. 1953.
- Burfoot, J. C. 597  
Numerical ray-tracing in electron lenses. Brit. J. Appl. Phys. 3:22-4. 1/52.
- Burfoot, J. C. 598  
Correction of electrostatic lenses by departure from rotational symmetry. Proc. Phys. Soc. 66B:775-92. 1953.
- Burge, R. E. & J. T. Randall 599  
The equivalence of electron microscope and X-ray observations on collagen fibers. Proc. Roy. Soc. 233A:1-16. 1955.
- Burgos, Mario H. & Don W. Fawcett 600  
Studies on the fine structure of the mammalian testis. I. Differentiation of the spermatids in the cat (*Felis domestica*). J. Biophys. Biochem. Cytol. 1(4):287-300. 7/55.
- Burkhardt, R. 601  
Der Elmigraph I; ein neues Gerät zur räumlichen Ausmessung und Kartierung von elektronenmikroskopischen Bildpaaren. Optik. 12:417-29. 1955.
- Burnet, MacFarlane 602  
The riddle of influenza virus. Endeavour. 14(53):5-11. 1/55.
- Burton, D., D. A. Hall, M. K. Keech, R. Reed, H. Saxl, R. E. Tunbridge & M. J. Wood 603  
Apparent transformation of collagen fibrils into "elastin". Nature. 176:966-9. 11/19/55.
- Burton, D. & R. Reed 604  
The architecture of the collagen fibrils in pelt as revealed by the electron microscope. J. Soc. Leather Trades' Chemists. 36:13-22. 3/1/53.
- Burwell, J. T. & C. D. Strang 605  
On the empirical law of adhesive wear. J. Appl. Phys. 23:18-28. 1/52.
- Busch, Heinz 606  
Dünnsche Aufdampfschichten auf Flüssigkeitsoberflächen (Glycerin). Z. wiss. Mikroskop. 62(3):152-4. 1/55.
- Bussy, P. 607  
Étude de défauts des pellicules-répliques d'alumine en relation avec la structure de l'aluminium et de ses alliages. Rev. mét. 50(9):629-34. 1953.
- Bussy, P. 608  
Structures orientées très fines observées par microscopie électronique sur les faces des cristaux de l'aluminium et de ses alliages. Rapport Européen Congrès Toeg. Em. Gent, 4/7-10/54.
- Bussy, Pierre 609  
Sur l'orientation d'une sous-structure fine observée au microscope électronique sur les faces des cristaux de l'aluminium et de ses alliages. Compt. rend. acad. sci. 238:247-9. 1/11/54.
- Bussy, Pierre & Georges Chaudron 610  
Mise en évidence par microscopie électronique, d'une sous-structure fine des cristaux de l'aluminium et de ses alliages. Compt. rend. acad. sci. 236:2323-5. 6/15/53.
- Bustraen, M., J. C. Goedheer & J. B. Thomas 611  
On the electron scattering power of protein structures in the spinach chloroplast. Biochim. Biophys. Acta. 9:499-505. 1952.
- Butenuth, Gottfried, Oskar Glemser & Klaus Koch 612  
Über organische Folien mit hoher Resistenz gegen Elektronenstrahlen. Naturwissenschaften. 41(21):499-500. 1954.
- Bykhovskaia, L. N. & U. M. Kushnir 613

Electron optical investigations of complex photocathodes. *Zh. Tekh. Fiz.* 25(14):2477-85. 1955.

Bystricky, Vojtech 614  
Caulobacter as an unusual contamination of preparations for electron microscopy. (in Czech) *Biologia.* 9(5):566-9. 1954.

Bystricky, V. 615  
Elektronenmikroskopie einiger Viruspurifikation. (in Russian) *Ceskoslov. biol.* 3(5):318-21. 1954.

Bystricky, Vojtech & D. Blackovic 616  
On the problem of filtrable forms of bacteria. III. An electron microscope study of the L-cycle of *Hemophilus influenzae*. (in Czech) *Ceskoslov. biol.* 4(10):597-9. 1955.

Bystricky, Vojtech & Bohumil Styk 617  
Electron microscopy of influenza virus type C. (in Czech) *Ceskoslov. biol.* 4(1):41-4. 1955.

Cachera, R. & F. Darnis 618  
Examen du foie humain au microscope électronique. *Semaine hôp.* 31:2187-3000. 1955.

Cadle, R. D. & P. L. Magill 619  
Preparation of solid- and liquid-in-air suspensions. For use in air pollution studies. *Industr. Engng. Chem.* 43:1331-5. 6/51.

Cadle, R. D., Sylvan Rubin, C. I. Glassbrook & P. L. Magill 620  
Identification of particles in Los Angeles smog by optical and electron microscopy. *Arch. Ind. Hyg. Occupational Med.* 2:698-715. 12/50.

Caillère, Simonne, A. Mathieu-Sicaud & Stephane M. Hénin 621  
Sur une montmorillonite à texture fibreuse. *Compt. rend. acad. sci.* 236:1581-3. 4/20/53.

Caillère, S., A. Oberlin & S. Hénin 622  
Étude au microscope électronique de quelques silicates phylliteux obtenus par synthèse à basse température. *Clay Minerals Bull.* 2(12):146-56. 1954.

Calbick, C. J. 623  
Inorganic replication in electron microscopy. *Bell Sys. Tech. J.* 30:798-824. 10/51.

Calbick, C. J. 623a  
Special techniques of surface replication. (Abstract, Paper #13, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) *J. Appl. Phys.* 23:158. 1/52.

Calbick, C. J. 624  
Inorganic replication: Interpretation of electron micrographs. Symposium on Techniques for Electron Metallography. *Am. Soc. Testing Materials Spec. Technical Pub.* 155:33-46. 1953.

Calbick, C. J. & S. E. Koonce 624a  
Void formation during drying of plastic films. (Abstract, Paper #A22, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) *J. Appl. Phys.* 25:1455. 1954.

Callan, S. G. & S. G. Tomlin 625  
Experimental studies on amphibian oocyte nuclei. I. Investigation of the structure of the nuclear membrane by means of the electron microscope. *Proc. Roy. Soc. London.* 137B:367-78. 1950.

Calvin, M. & V. Lynch 626  
Grana-like structures of *Synechococcus cedorum*. *Nature.* 169:455. 3/15/52.

Capot, L., P. Blanquet, R. Canivenc & G. Mayer 627  
Etude au microscope électronique des cellules du placenta du rat. *Compt. rend. soc. biol.* 147:2019-22. 12/53.

Carlsen, Frits, Ejnar, Jensen & Gordon Johansen 628  
The calcium phosphate precipitated in the Gomori technique for alkaline phosphatase. *Compt. rend. trav. lab. Carlsberg. Ser. chim.* 29(1):1-6. 1953.

Carlsen, F. & G. G. Knappeis 629  
The anisotropic and isotropic bands of skeletal muscle in light- and electron microscopy. *Exptl. Cell Research.* 8:329-35. 1955.

Carlström, D. & H. Engström 630  
The ultrastructure of statoconia. *Acta Oto-Laryngol.* 45(1):14-8. 1955.

Cartwright, J. 631  
The electron microscopy of airborne dusts. *Brit. J. Appl. Phys.* 3:S109-S20. 1954.

Cartwright, J. & J. W. Skidmore 632  
The measurement of size and concentration of airborne dusts with the electron microscope. Ministry Fuel and Power (Brit.), Safety in Mines Research Estab. Research Rept. No. 79. 31p. 9/53.

Castagnoli, C. & F. Graziosi 633  
Determinazione delle dimensioni di un batteriofago attivo sul *B. megatherium* mediante il microscopio elettronico ed i raggi X. *Rend. ist. super. sanità.* 15:148-54. 1952.

Castagnoli, Carlo & Franco Graziosi 634  
Indagine microelettronica della struttura del batteriofago BM. *Riv. Biol. Perugia.* 46(1):163-5. 1-3/54.

Castagnoli, Carlo & Franco Graziosi 635  
Metodo elementare di misura di campioni microelettronici ombrati. *Riv. Biol. Perugia.* 46(1):157-61. 1-3/54.

Castaing, R. 636  
Détection et mesure directe de l'astigmatisme d'ellipticité d'une lentille électronique. *Compt. rend. acad. sci.* 231:994-6. 1950.

Castaing, R. 637  
Recherches au microscope électronique sur les premiers stades du durcissement d'un alliage aluminium-cuivre. Conf. of Electron Micros., Delft, 7/49. *Proc. The Hague, Nijhoff,* 1950. :175-8.

Castaing, R. 638  
Lentille corrigée de l'astigmatisme et son utilisation pour l'obtention de sondes de grande brillance. 1st Int. Cong. Electron Micros., Paris, 9/50. *Proc.* :148-54. Paris, Ed. Rev. Optique, 1953.

Castaing, R. 639  
Le microanalyseur à sonde électronique. *Rev. mét.* 50(9):623-8. 1953.

Castaing, R. 640  
Examen direct des métaux par transmission en microscopie et diffraction électroniques. *Rev. mét.* 52(9):669-75. 9/55.



CASTAING  
#641

- Castaing, Raymond & Jacques Descamps 641  
Sur la contamination des échantillons dans le microanalyseur à sonde électronique. Compt. rend. acad. sci. 238:1506-8. 5/5/54.
- Castaing, Raymond & Paul Laborie 642  
Examen direct des métaux par transmission au microscope électronique. Compt. rend. acad. sci. 237:1330-2. 11/23/53.
- Castaing, R. & P. Laborie 643  
Aspects particuliers de l'étude des métaux en coupes minces. Compt. rend. acad. sci. 238:1885-7. 5/10/54.
- Castaing, Raymond & Gabriel Lenoir 644  
Étude micrographique à haute résolution des premiers stades du vieillissement d'un alliage aluminium-cuivre. Compt. rend. acad. sci. 239:972-4. 10/18/54.
- Caule, E. J. & M. Coben 645  
An electron-micrograph study of oxide films on electro-polished surfaces of iron. Can. J. Chem. 31:237-41. 1953.
- Causey, Gilbert 646  
The electron microscope. Med. Press. 232:221-7. 1954.
- Causey, G. & H. Hoffman 647  
Axon sprouting in partially deneurotized nerves. Brain. 78(4):661-8. 1955.
- Cavallo, Giorgio & Gerhard Schramm 648  
Über die Reinigung eines temperierten Phagen. Z. Naturforsch. 9b(9):579-82. 1954.
- Chaaueveau, Jean, Alain Gautier, Yvonne Moulé & C. Rouiller 649  
Étude morphologique et biochimique de la fraction "microsomes" des cellules du foie et du pancreas de rat. Compt. rend. acad. sci. 241:337-9. 7/18/55.
- Challice, C. E. 649a  
Discussion: Wyckoff, R.W.G. The fine structure of protoplasm. (this journal 11:230). Discussions Faraday Soc. 11:248. 1951.
- Challice, C. E. 650  
The extension of the magnification range of a two-stage electron microscope. J. Sci. Instr. 29:167. 5/52.
- Challice, C. E. 651  
Electron microscope studies of spermiogenesis in some rodents. J. Roy. Microscop. Soc. 115-27. 12/53.
- Challice, C. E. 652  
The electron microscope with particular reference to its use in biological research. I. Lab. Practice. 3(6):238-42. 1954. II. Lab. Practice. 3(7):279-84. 1954. III. Lab. Practice. 3(9):373-7. 1954.
- Challice, C. E. 653  
Electron Microscopy Group of the Institute of Physics. Annual conference. Nature. 173:340-1. 2/20/54.
- Challice, C. E. 654  
Summarized proceedings of a conference on electron microscopy - London, November, 1953. Brit. J. Appl. Phys. 5:165-70. 1954.
- Challice, C. E. & T. H. Flewett 655

CHATTERJEE  
#668

- The growth of the avian plague virus in the cultures of tissues. 1st. Int. Cong. Electron Microsc., Paris, 9/50. Proc.:611-8. Paris, Ed. Rev. Optique, 1953.
- Challice, C. E. & R. H. Gorrill 656  
Some observations on the morphological changes in E. coli accompanying induction by ultraviolet light. Biochim. et Biophys. Acta. 14:482-7. 8/54.
- Challice, C. E. & Dennis Lacy 657  
Fine structure of exocrine cells of the pancreas. Nature. 174:1150. 12/18/54.
- Champeix, J. & J. Bouteville 658  
Étude au microscope électronique des corps asbestosiques et des fibres damiante. Arch. Maladies Profess. 11:607-12. 1950.
- Chanson, Paul & Claude Magnan 659  
Sur les premières images obtenues avec un microscope protonique. Compt. rend. acad. sci. 233:1436-8. 12/3/51.
- Chanson, Paul & Claude Magnan 660  
Sur le contraste des images en microscopie protonique dû à la diffusion élastique et inélastique des protons dans les éléments légers. Compt. rend. acad. sci. 238:1701-3. 4/26/54.
- Chanson, Paul & Claude Magnan 661  
Sur une nouvelle cause de contraste des images obtenues avec un microscope protonique. Compt. rend. acad. sci. 238:1797-9. 5/3/54.
- Chapman, G. B. 662  
Electron microscopy of ultra-thin sections of insect flight muscle. J. Morphol. 95(2):237-62. 9/54.
- Chapman, George B. & James Hillier 663  
Electron microscopy of ultra-thin sections of bacteria. I. Cellular division in *Bacillus cereus*. J. Bacteriol. 66(3):362-73. 9/53.
- Chapman, George, James Hillier & Frank H. Johnson 664  
Observations on the bacteriophagy of *Erwinia carotovora*. J. Bacteriol. 61(3):261-8. 3/51.
- Chapman, J. A. & J. W. Menter 665  
Importance of low beam intensity in the examination of fibres by reflection electron microscopy. Research Correspondence. 7:A1-A4. 8/54.
- Chapman, J. A. & J. W. Menter 666  
Importance of low beam intensity in the examination of films by reflection electron microscopy. Research Correspondence. 7:S47-8. 1954.
- Chapman, J. A. & J. W. Menter 667  
A study to the shape, surface structure and frictional wear of fibres by reflexion electron microscopy. Proc. Roy. Soc., London. 226A:400-7. 1954.
- Chappuis, Mary M. & M. H. Polley 667a  
Methods of preparing carbon black loaded rubber stocks for electron microscope examination. (Abstract, Paper #21, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:159. 1/52.
- Chappuis, M. M., M. H. Polley & R. A. Schulz 667b  
Reinforced rubber stocks under the electron microscope. Rubber World. 129-30:507-9. 7/54.
- Chatterjee, K. R., N. N. Das Gupta & M. L. De 668

Observations on the morphology of *Mycobacterium leprae* by ordinary optics, phase microscopy, and electron microscopy. Intern. J. Leprosy. 23(4):385-92. 1955.

Chaume, G., J. Guillaume & A. Mathieu- 669  
Sicaud

Posémètre pour microscope électronique application au choix des révélateurs. Bull. soc. franç. minéral et crist. 76:193-204. 1953.

Chauveau, J. & G. Clement 670  
Méthode d'obtention quantitative des structures cellulaires a partir d'un même échantillon de tissu. Arch. sci. physiol. 5:277-87. 1951.

Cheli, Rodolfo 671  
Studi al microscopio elettronico sulla struttura delle emazie di soggetti affetti da ittero emolitico. Haematologica Pavia. 37:853-9. 1953.

Chen, Y. T. 672  
The flagellar structure of some protista. Conf. of Electron Micros., Delft, 7/49. Proc. The Hague, Nijhoff, 1950. :156-8.

Cheney, R. H. & A. I. Lansing 673  
Caffeine inhibition of fertilization in Arbacia. Exptl. Cell Research. 8(1):173-80. 1955.

Chihaya, Tadashi, Nobuo Shiota & Hisashi Ariga 674  
Fundamental studies on selenium (6th report). Observation with the electron microscope. (in Japanese) Nippon Kinzoku-Gakkai-Shi 17:63-8. 1953.

Chow, T. L., Fu Ho Chow & R. P. Hanson 675  
Morphology of vesicular stomatitis virus. J. Bacteriol. 68(6):724-6. 12/54.

Christie, A. C. 676  
A study of the Kultschitzky (argentaffin) cell with the electron microscope, after fixation by osmium tetroxide. Quart. J. Microscop. Sci. 96(3):295-9. 1955.

Cigada, Marisa 677  
Le proteine nell'accrescimento embrionale di alcuni animali. Rend. ist lombardo sci. 86:847-64. 1953.

Clark, G. L., A. E. Vatter & G. W. Bailey 678  
Techniques in the electron micrography of storage battery plates and of finely ground carbons. (Abstract, Paper #8, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26:1392. 1955.

Clarke, W. W. H. & L. Jacob 679  
Some characteristics of a low voltage electron immersion objective. Proc. Phys. Soc. London. 66B:284-95. 4/53.

Claude, A. 680  
Cell morphology and the organization of enzymatic systems in cytoplasm. Proc. Roy. Soc. London. 142B:177-86. 1954.

Claude, Albert 681  
Fine structure of cytoplasm. Symposium on Fine Structure of Cells, held at 8th Cong. of Cell Biology, Leyden, 1954. :307-15. Groningen, P. Noordhoff, 1955.

Claver, George C. 682

Modified viewing chamber windows for electron microscopes. J. Opt. Soc. Amer. 45(2):132. 1955.

Claver, G. C. 683  
Submicroscopic structure of polyethylene. (Abstract, Paper #10, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26:1392. 1955.

Clemens, H. J. 684  
Elektronenmikroskopische Beobachtungen an der Lungenalveole. Morph. Jb. 94(3-4):471-92. 1954.

Clemens, H. J. 685  
Elektronenmikroskopische Bilder der Rattenlunge. Verh. anat. Ges. Munster, 52 Versamml., 4/6-9/54. :339-40.

Clemens, H. J. 686  
Elektronenmikroskopische Untersuchungen über den Bau der Alveolenwand der Rattenlunge. Verh. anat. Ges. Munster, 52 Versamml., 4/6-9/54. :204-5.

Clemens, H. J. 687  
Elektronenoptische Untersuchungen über den Bau der Alveolenwand in der Rattenlunge. Z. Zellforsch. 40:1-7. 1954.

Clermont, Y., E. Einberg, C. P. Leblond & S. Wagner 688  
The perforatorium - an extension of the nuclear membrane of the rat spermatozoon. Anat. Record. 121(1):1-12. 1955.

Clermont, Yves & F. Haguenau 689  
Examen au microscope électronique de la zone de Golgi des spermatides de rat. Compt. rend. acad. sci. 241:708-10. 9/12/55.

Clews, C. J. B. 690  
Metallurgical applications of the electron microscope. Nature. 165:390-3. 3/11/50.

Coassolo, Mario 691  
Studio sulle ultrastrutture della macula labirintica. Arch. ital. otol. rinol. e laringol. 65(3):328-36. 1954.

Coassolo, Mario 692  
La ultrastruttura della cupola. Arch. ital. otol. rinol. e laringol. Suppl. 17:11-71. 1954.

Cobbold, A., R. DeP. Daubeney, K. Deutsch & P. Markey 693  
Fine structure in polyethylene terephthalate fibres. Nature. 172:806. 10/31/53.

Cochran, George W., A. M. Asadi & T. F. Dougherty 693a  
A technique for electron microscopic observation of intact loose connective tissue and ground substance. (Abstract, Paper #H4, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1463. 1954.

Cochran, George W. & John Chidester 694  
Electron microscope pictures in color. (Abstract, Paper #10, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:157. 1/52.

Cochran, George W. & George M. Fister 695  
Electron microscope studies of human urine. (Abstract, Paper #35, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26:1397. 1955.



- Cocks, G. G. & C. M. Schwartz 695a  
A simplified microtome for electron microscopy. (Abstract, Paper #41, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:115. 1951.
- Cocks, G. G. & C. M. Schwartz 696  
A cantilever microtome for precision sectioning in electron and light microscopy. Rev. Sci. Instr. 23:615-8. 11/52.
- Coffey, Julia M. 697  
Stalk bacteria contaminating specimens for electron microscopy. N. Y. State Dept. of Health. Div. of Labs. and Research. Annual Report, 1951. :25-6.
- Cohen, Morris & E. Bowler 698  
Lamellar structure of the tobacco chloroplast. Protoplasma. 42(4):414-6. 1953.
- Cohen, Seymour S. 699  
On the study of virus multiplication. 2nd National Cancer Conf., Cincinnati, Ohio, 1952. Proc., 2:1337-45. New York, American Cancer Soc. 1954.
- Coheur, P. & L. Habraken 700  
Creep of steel and electron microscope. Conf. of Electron Micros., Delft, 7/49. Proc. The Hague, Nijhoff, 1950. :172-4.
- Coheur, P., L. Habraken & J. Hebert 701  
Application de la micrographie électronique aux aciers Cr-Mo destinés au fluage a chaud. Rev. mét. 47(6):472-6. 1950.
- Cole, C. V. & M. L. Jackson 702  
Colloidal dihydroxy dihydrogen phosphates of aluminum and iron with crystalline character established by electron and X-ray diffraction. J. Phys. & Colloid Chem. 54:128-42. 1/50.
- Collier, L. H. 703  
The development of a stable smallpox vaccine. J. Hyg. 53(1):76-101. 3/55.
- Collongues, R. & G. Chaudron 704  
Étude de la structure et des propriétés de la pellicule de protoxyde de fer formée sur la surface du fer de très haute pureté. Rev. mét. 49(10):699-706. 1952.
- Collongues, R. & G. Chaudron 705  
Sur les modes de décomposition de la phase protoxyde de fer. Compt. rend. acad. sci. 234:728-9. 2/11/52.
- Collongues, R., R. Sifferlen & G. Chaudron 706  
Étude de l'oxydation du fer de haute pureté et des modes de décomposition de la phase protoxyde de fer. Rev. mét. 50(10):727-36. 1953.
- Colombani, Antoine & Gaston Ranc 707  
Influence du support sur la cristallisation des couches très minces d'or. Compt. rend. acad. sci. 233:46-8. 7/2/51.
- Colombani, Antoine & Gaston Ranc 708  
Sur la cristallisation des couches très minces d'or. Compt. rend. acad. sci. 232: 1344-6. 4/2/51.
- Columbe, M. J. 708a  
A new type of shadow microscopy. (Abstract, Paper #9, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:111. 1951.
- Columbe, Maynard J. 709  
A high temperature chamber for electron diffraction studies. (Abstract, Paper #7, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:112. 1953.
- Columbe, Maynard J. 709a  
A low-temperature chamber for electron diffraction studies. (Abstract, Paper #B1, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1456. 1954.
- Columbe, Maynard J. & Sterling P. Newberry 710  
An improved electron diffraction instrument. (Abstract, Paper #11, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1415. 11/53.
- Coman, Dale Rex 711  
Cellular adhesiveness in relation to the invasiveness of cancer: electron microscopy of liver perfused with a chelating agent. Cancer Research. 14(7):519-21. 8/54.
- Coman, Dale Rex & Thomas F. Anderson 712  
A structural difference between the surfaces of normal and of carcinomatous epidermal cells. Cancer Research. 15(8):541-3. 9/55.
- Comer, J. J. & F. A. Hamm 712a  
The preparation of substrates and replicas for high resolution studies. (Abstract, Paper #6, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:110. 1951.
- Comer, J. J. & F. A. Hamm 713  
Evaluation of several types of replicas. Preparation of substrates of high resolution electron microscopy. Anal. Chem. 24:1006-15. 6/52.
- Comer, Joseph J. & F. A. Hamm 714  
Molecular weight determination of polyvinylpyrrolidone using the electron microscope. (Abstract, Paper #26, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:160. 1/52.
- Comer, J. J. & S. J. Skipper 715  
Nuclear emulsions for electron microscopy. Science. 119:441-2. 4/2/54.
- Comer, J. J., H. W. Stetson & S. C. Lyons 716  
A new replica technique for making electron micrographs of surfaces of paper sheets. Tappi. 38(10):620-4. 1955.
- Comer, J. J. & J. W. Turley 717  
Replica studies of bulk clays. (Abstract, Paper #28, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1417. 11/53.
- Comer, J. J. & J. W. Turley 718  
Replica studies of bulk clays. J. Appl. Phys. 26(3):346-50. 3/55.
- Commoner, Barry, Masashi Yamada, Sidney D. Rodenberg, Tung-Yue Wang & Eddie Basler 719  
The proteins synthesized in tissue infected with tobacco mosaic virus. Science. 118:529-34. 11/6/53.
- Conference on problems of Aging. Trans. of 720  
15th Conference, Princeton, N. J., 1/20-2/53. :66-87, 166-88. New York, Josiah Macy, Jr. Foundation, 1954.

- Cooper, A. C. 721  
The electron microscope examination of pigment powders and their dispersions in oil media. 1st Int. Cong. Electron Micros., Paris, 9/50, Proc. :461-3. Paris, Ed. Rev. Optique, 1953.
- Cooper, B. S. & G. A. Basset 722  
Studies in the electron microscopy of nickel-chromium alloys. In Metallurgical Applications of the Electron Microscope. Institute of Metals Monograph and Report Series No. 8. :115-9. London, 1950.
- Cooper, J. R. 722a  
Effect of coil current reversal on distortion in an EMU-2A electron microscope with extended range lens. (Abstract, Paper #16, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:112. 1951.
- Copeland, Henry I., Gerhard M. Brauer, W. T. Sweeney & A. F. Forziati 723  
Setting reaction of zinc oxide and eugenol. J. Research Natl Bur. Standards. 55(3):133-8. 9/55.
- Coriell, Lewis L., Geoffrey Rake, Harvey Blank & T. F. McNair Scott 724  
Electron microscopy of herpes simplex. J. Bacteriol. 59:61-8. 1/50.
- Cosslett, V. E. 725  
New simplified electron microscopes. Nature. 166:305-6. 8/19/50.
- Cosslett, V. E. 726  
Remarks on the crystalline structure of some plant viruses. Conf. of Electron Micros., Delft, 7/49. Proc. The Hague, Nijhoff, 1950. :152-5.
- Cosslett, V. E. 727  
Practical electron microscopy. London, Butterworths, 1951.
- Cosslett, V. W. 728  
The application of electron microscopy in cytology. Chemistry & Industry (London). :29-34. Jan. 1952.
- Cosslett, V. E. 729  
Electron microscopy of solid surfaces. Nature. 170:861-3. 11/22/52.
- Cosslett, V. E. 730  
Report of conferences on electron microscopy-Washington and Philadelphia 1951. Brit. J. Appl. Phys. 3:137-9. 5/52.
- Cosslett, V. E. 731  
The prospects of examining living matter in the electron microscope. 1st Int. Cong. Electron Micros., Paris, 9/50, Proc. :555-66. Paris, Ed. Rev. Optique, 1953.
- Cosslett, V. E. 732  
Recent developments in electron microscopy. J. Phot. Sci. 1:64-70. 1953.
- Cosslett, V. E. 733  
Elektronen-mikroskopie in Cambridge. Optik. 11:121-32. 1954.
- Cosslett, V. E. 734  
Present trends in electron microscopy. Nat. Bur. Standards U.S. Circ. 527:291-303. 3/54.
- Cosslett, V. E. 735  
X-ray microscopy: a rival to electron microscopy? Rapport Europées Congrès Toeg. Em. Gent, 4/7-10/54. :281-92.
- Cosslett, V. E. 736  
Electron microscopy. In Physical Techniques in Biological Research. (Ed. by G. Oster & A. W. Pollister) 1:463-531. New York, Academic Press, 1955.
- Cosslett, V. E. 737  
Recent developments in electron microscopy. Research. 8:48-56. 2/55.
- Cosslett, V. E. & D. Jones 738  
Design of combined electron microscope and diffraction apparatus. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :213-22. Paris, Ed. Rev. Optique, 1953.
- Cosslett, V. E. & D. Jones 739  
A reflexion electron microscope. J. Sci. Instr. 32:86-91. 3/55.
- Cosslett, V. E., J.A.R. Miles & M.G.P. Stoker 740  
The morphology of mouse pneumonitis virus (Nigg) in various hosts. Brit. J. Exptl. Pathol. 31(4):454-7. 8/50.
- Cosslett, V. E. & W. C. Nixon 741  
X-ray shadow microscopy. Nature. 168:24-5. 7/7/51.
- Cosslett, V. E. & W. C. Nixon 742  
The X-ray shadow microscope. (Abstract, Paper #20, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:114. 1953.
- Cosslett, V. E. & W. C. Nixon 743  
X-ray shadow microscopy. Nature. 170:436-8. 9/13/52.
- Cosslett, V. E., J. Nutting & R. Reed 744  
Summarized proceedings of a conference on electron microscopy - Bristol, September 1952. Brit. J. Appl. Phys. 4:1-5. 1/53.
- Couch, Houston B. & Herbert A. Gold 745  
Rod-shaped particles associated with lettuce mosaic. Phytopathology. 44(12):715-7. 1954.
- Couchet, Georges 746  
Réalisation d'un nouveau microscope électronique et ionique à émission. Congrès des Sociétés savantes. 79:87-93. 1954.
- Couchet, Georges, Maurice Gauzit & Albert Septier 747  
Image ionique d'une anode émissive. Compt. rend. acad. sci. 233:1087-90. 11/5/51.
- Couchet, Georges, Maurice Gauzit & Albert Septier 748  
Microscopie ionique par ions lithium. Bull. microscop. appl. 2:85-91. 7-8/52.
- Courtél, Robert 749  
Etude, par diffraction électronique, de certaines réactions et structures superficielles dans le cas des métaux. Métaux & corrosion. 297:117-25. 5/50.
- Courtél, Robert & Jean Loriers 750  
Sur la formation de  $\text{Ce}_2\text{O}_3$  cubique dans l'oxydation du cérium et sa mise en évidence par diffraction électronique. Compt. rend. acad. sci. 230:735-7. 2/20/50.



- Coutinho, Leopoldo M., Helmut Ruska, Mercedes R. Edwards & George A. Edwards 751  
The fine structure of chloroplasts of *Tetragonia expansa* Thunb. *Anais acad. brasill. cienc.* 4(27):505-17. 12/55.
- Cowley, J. M. 752  
A new microscope principle. *Proc. Phys. Soc. London.* 66B:1096-1100. 1953.
- Cowley, J. M., A.L.G. Rees & J. A. Spink 753  
The morphology of zinc oxide smoke particles. *Proc. Phys. Soc. London.* 64B:638-44. 1951.
- Crabtree, J. M., C. S. Lees & K. Little 754  
The copper flourides. Part I - X-ray and electron microscope examination. *J. Inorg. & Nuclear Chem.* 1:213-7. 1955.
- Crafts, Walter & John L. Lamont 755  
Carbides in long-tempered vanadium steels. *Trans. Am. Inst. Mining Met. Engrs.* 188:561-74. 3/50.
- Craig, William J. 756  
Preparation of replicas for electron metallography. *Metal Progr.* 60:68-71. 8/51.
- Craig, W. J. 757  
An electron microscope study of the development of fatigue failures. *Engineering Experiment Station, University of Illinois, Urbana, Ill. Technical Report No. 27.* 22p. 1952.
- Crampsey, Edward, Manfred Gordon & John W. Sharpe 758  
Electron microscopic study of the locus of a latex reaction. *J. Colloid Sci.* 9(3):185-90. 6/54, and *Rubber Chem. and Technol.* 28:623. 1955.
- Cravath, A. M. 759  
Contrast and grain of electron micrograph negatives. (Abstract, Paper #2, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) *J. Appl. Phys.* 24:112. 1953.
- Cremer, E. & L. Bachmann 760  
Übermikroskopischer Beitrag zur Kinetik der Phasenbildung. *Z. Elektrochem.* 59(5):407-9. 1955.
- Crisp, D. J. & W. H. Thorpe 761  
A simple replica technique suitable for the study of surface structures. *Nature.* 165:273. 2/18/50.
- Crocker, T. Timothy 762  
The number of elementary bodies per 50% lethal dose of meningo-pneumonitis virus as determined by electron microscopic counting. *J. Immunol.* 73(1):1-7. 7/54.
- Crocker, T. Timothy & Blair M. Bennett 763  
Electron microscopic counting of elementary bodies of the virus of meningo-pneumonitis. *J. Immunol.* 69(2):183-96. 1952.
- Crocker, T. Timothy & Robley C. Williams 764  
Electron microscopic morphology of frozen-dried particles of meningo-pneumonitis virus. *Proc. Soc. Exptl. Biol. Med.* 88:378-9. 1955.
- Croissant, O., P. Lépine & R.W.G. Wyckoff 765  
Recherches sur l'ultrastructure des corps de Negri examinés au microscope électronique. *Ann. inst. Pasteur.* 89(2):183-92. 1955.
- Cuckow, F. W. 766  
Fixation in electron microscopy. *Nature.* 175:131. 1/15/55.
- Cuckow, F. W. & E. Kleiberger-Nobel 767  
Further studies of organisms of the pleuropneumonia group by electron microscopy. *J. Gen. Microbiol.* 13(1):149-54. 8/55.
- Cunningham, W. A. & M. A. Vela 768  
Take a look at lime-base greases through an electron microscope. *Petroleum Refiner.* 31(6):110-2. 6/52.
- Czekalowski, J. W. & G. Eaves 769  
Formation of granular structures by leptospirae as revealed by the electron microscope. *J. Bacteriol.* 67(6):619-27. 6/54.
- Czekalowski, J. W. & G. Eaves 770  
The structure of leptospirae as revealed by electron microscopy. *J. Pathol. Bacteriol.* 69:129-32. 1955.
- Czertkova, E. I. & N. I. Bujnow 771  
Étude au microscope électronique de l'influence des substances chimiques actives sur le bacille tuberculeux. *Polskie Tygodnik Lekarski.* 8:1024. 1953.
- Czyewski, Harry 772  
Branching of slip lines in  $\alpha$ -brass. *J. Appl. Phys.* 22:846. 6/51.
- Dalitz, V. Ch. 773  
Abdruckverfahren zur Beobachtung von Holz im Übermikroskop. *Z. wiss. Mikroskop.* 61:292. 3/53.
- Dalitz, V. Ch. & J. A. Schuchmann 774  
Ein Doppel-Abdruckverfahren mit Hilfe von Kohlenschichten. *Optik.* 10:143-6. 1953.
- Dalitz, V. Ch. & J. A. Schuchmann 775  
Electronenmicroscopisch onderzoek van metaaloppervlakken. I. Vorderingen in de prepareertechniek. *Metaalinst. T.N.O. Circ.* 21:1-9. 1/53.
- Dalton, Albert J. 776  
Electron micrography of epithelial cells of the gastro-intestinal tract and pancreas. *Am. J. Anat.* 89:109-33. 7/51.
- Dalton, Albert J. 777  
Structural details of some of the epithelial cell types in the kidney of the mouse as revealed by the electron microscope. *J. Natl. Cancer Inst.* 11:1163-85. 6/51.
- Dalton, A. J. 778  
Preparation of tissues for study under the electron microscope. *Lab. Invest.* 1(1):46-9. Spring, 1952.
- Dalton, A. J. 779  
A study of the Golgi material of hepatic and intestinal epithelial cells with the electron microscope. *Z. Zellforsch.* 36:522-40. 1952.
- Dalton, Albert J. 780  
Electron microscopy of the epithelial cell types of the stomach and intestine. *J. Natl. Cancer Inst.* 13:983. 2/53.
- Dalton, A. J. 781  
Electron microscopy of tissue sections. *Intern. Rev. Cytol.* 2:403-17. 1953.



- Dalton, A. J. 782  
Discussion: Electron microscopy of basophilic components of cytoplasm. (K. R. Porter, J. Histochem. Cytochem. 2(5):346-73. 1954.) J. Histochem. Cytochem. 2(5):374-5. 1954.
- Dalton, A. J. & Marie D. Felix 783  
Further electron microscopic studies of the epididymis and pancreas of the mouse. (Abstract, Paper #74, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1425. 11/53.
- Dalton, Albert J. & Marie D. Felix 784  
Phase contrast and electron micrography of the Cloudman S91 mouse melanoma. In 3rd Conference on Biology of Normal and Atypical Pigment Cell Growth, 1953. Proc. :267-76. New York, Academic Press, 1953.
- Dalton, A. J. & M. D. Felix 785  
Phase contrast and electron micrography of the Golgi substance of epithelial cells of the epididymis of the mouse and rat. Anat. Record. 115:423. 1953.
- Dalton, A. J. & M. D. Felix 786  
Studies of the Golgi substance of the epithelial cells of the epididymis and duodenum of the mouse. Am. J. Anat. 92(2):277-306. 3/53.
- Dalton, A. J. & Marie D. Felix 787  
Cytologic and cytochemical characteristics of the Golgi substance of epithelial cells of the epididymis--in situ, in homogenates and after isolation. Am. J. Anat. 94:171-208. 3/54.
- Dalton, A. J. & Marie D. Felix 788  
A study of the Golgi substance and ergastoplasm in a series of mammalian cell types. 8th Intern. Congress of Cell Biology, Leyden, 9/54. :274-93. Groningen, Noordhoff, 1954.
- Dalton, A. J., Herbert Kahler & Bolivar J. Lloyd 789  
The structure of the free surface of a series of epithelial cell types in the mouse as revealed by the electron microscope. Anat. Record. 111(1):67-72. 1951.
- Dalton, Albert J., Herbert Kahler, Mary Jo Striebig & Bolivar Lloyd 790  
Finer structure of hepatic, intestinal, and renal cells of the mouse as revealed by the electron microscope. J. Natl. Cancer Inst. 11:439-61. 10/50.
- Daniel, Milan & Jiří Ludvík 791  
Cuticular structures of Ixodidae. I. Surface structures on the scutum of *Ixodes ricinus* Linné. (In Czech) Vestník. Českoslov. Zool. Společ. 17(4):266-74. 1953.
- Daniel, Milan & Jiří Ludvík 792  
Oberflächenstrukturen des scutums von *Ixodes ricinus*. Z. Parasitenk. 16:241-52. 1954.
- Danon, D. & M. Danon 793  
Étude au microscope électronique de la fibre nerveuse par la méthode des coupes minces. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :704-9. Paris, Ed. Rev. Optique, 1953.
- Danon, M. & E. Guyénot 794  
Études des chromosomes des ovocytes de Batraciens. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :675-81. Paris, Ed. Rev. Optique, 1953.
- Danon, M., E. Guyénot, E. Kellenberger & J. Weigle 795  
Electron micrograph of a chromosome of Triton. Nature. 165:33. 1/7/50.
- Dardanoni, L. & P. Zaffiro 796  
Microsferule endocitoplasmatiche in specie di enterobatteri al microscopio elettronico. Riv. ist. sieroterap. ital. 30(5):359-67. 1955.
- Dargent, R. 797  
Les méthodes d'empreintes en microscopie électronique. Métaux. 28(335-6):285-92. 7-8/53.
- Das Gupta, N. N. & D. L. Bhattacharya 798  
Electron and photomicrographic studies of the flagellate form of *Leishmania donovani*. Nature. 167:1063. 6/30/51.
- Das Gupta, N. N., M. L. De & S. P. Raychaudhuri 799  
Structure of sannhemp (*Crotalaria juncea* Linn.) mosaic virus with the electron microscope. Nature. 168:114. 7/21/51.
- Das Gupta, N. N., A. Guha & M. L. De 800  
Observations on the structure of *Leishmania donovani*- the kala-azar parasite. Exptl. Cell Research. 6:353-60. 1954.
- Dautrebande, L. 801  
Influence of temperature on the micellary size of salt aerosols. Nature. 166:546-7. 1950.
- Dautrebande, L. 802  
Réaction pneumoconstrictrice à l'inhalation de poussières fines. Convegno Int. Med. Lavoro, Milano, 1950. Atti. :226-52.
- Dautrebande, L. 803  
Physiologie et pharmacodynamie des réactions pulmonaires à l'inhalation de poussières. In Homenaji ofrecido a Teofilo Hernando por sus amigos y discipulos. Madrid, Libreria y Casa editorial Hernando, 1952. :127-54.
- Dautrebande, L. 804  
Importance des poussières de petite taille et moyens de les combattre. In Essai de Prévention de la Silicose. :9-79. Bruxelles, Union Minière du Haut-Katanga, 1954. Translated into English by Margaret Clarke and W. E. George. Sydney, Australia, The Joint Coal Board, 3/56.
- Davis, D. W., T. G. Rochow, F. G. Rowe, M. L. Fuller, Paul F. Kerr & Peggy-Kay Hamilton 805  
Electron micrographs of reference clay minerals. (Am. Petroleum Inst. Clay Mineral Standards, Preliminary Report No. 6) New York, Columbia University, 1950. 17p.
- Davis, J. C. & Stuart Mudd 806  
The cytology of a strain of *Corynebacterium diphtheriae*. J. Bacteriol. 69(4):372-86. 1955.
- Davis, R. J., R. Pearce & W. Hume-Rothery 807  
The structure of an  $\alpha/\beta$  Brass. Acta Cryst. 5(1):36-8. 1/52.
- Davoine, F. & R. Bernard 808  
Réalisation d'un petit four de frittage à vide élevé permettant d'atteindre 1700°C. J. phys. radium. 13:50. 7/52.
- Davoine, François & Émile Pernoux 809  
Sur l'emploi des caoutchoucs chlorés comme

films-supports d'objets en microscopie électronique. *Compt. rend. acad. sci.* 233:1590-1. 12/19/51.

Dawson, I. M. 810  
An externally adjustable objective aperture for electron microscopy. *J. Sci. Instr.* 27: 142-3. 5/50.

Dawson, I. M. 811  
Crystal structure of a low molecular weight protein. Electron microscopy of  $\beta$ -lactoglobulin crystals. *Nature*. 168:241-2. 8/11/51.

Dawson, I. M. 812  
The study of crystal growth with the electron microscope. II. The observation of growth steps in the paraffin n-heptane. *Proc. Roy. Soc. London*. 214A:72-9. 1952.

Dawson, I. M. 813  
Techniques for the electron microscopy of crystals. *Brit. J. Appl. Phys.* 4:177-81. 6/53.

Dawson, I. M. & W. J. Elford 814  
Electron microscopy of influenza virus. *Conf. of Electron Micros.*, Delft, 7/49. *Proc. The Hague, Nijhoff*, 1950. :120-2.

Dawson, I. M., J. Hossack & G. M. Wyburn 815  
Observations on the Nissl's substance cytoplasmic filaments and the nuclear membrane of spinal ganglion cells. *Proc. Royal Soc. London*. 144B:132-42. 1955.

Dawson, I. M., I. Lominski & Harold Stern 816  
An electron microscope study of the action of cetyl-trimethyl-ammonium bromide on *Staphylococcus aureus*. *J. Pathol. Bacteriol.* 66: 513-26. 1953.

Dawson, I. M. & M. F. Perutz 817  
Summarized proceedings of a meeting on "the investigation of biological systems by the electron microscope and by X-ray analysis." Buxton, 1949. *Brit. J. Appl. Phys.* 1:57-9. 3/50.

Dawson, Ian M. & Harold Stern 818  
Structure in the bacterial cell-wall during cell division. *Biochim. et Biophys. Acta*. 13:31-40. 1/54.

Dawson, I. M. & V. Vand 819  
The observation of spiral growth-steps in n-paraffin single crystals in the electron microscope. *Nature*. 167:476. 3/24/51, and *Proc. Roy. Soc. London*. 206A:555-62. 1951.

Day, M. F., I.F.B. Common, J. L. Farrant & Coralie Potter 820  
A polyhedral virus disease of a pasture caterpillar, *Pterolocera amplicornis* Walker (Anthelidae). *Australian J. Biol. Sci.* 6(4): 574-9. 1953.

Day, M. F., J. L. Farrant & Coralie Potter 821  
Stages in the development of a polyhedral virus disease. (Abstract, Paper #30, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) *J. Appl. Phys.* 26:1396. 1955.

Day, T. D. & G. Eaves 822  
Electron microscope observations of the ground substance of interstitial connective tissue. *Biochim. et Biophys. Acta*. 10:203-9. 1953.

Daykin, P. N. 823  
Electrode shapes for a cylindrical electron beam. *Brit. J. Appl. Phys.* 6:248-50. 1955.

De, M. L. 824  
An experimental study of the illuminating system of the electron microscope. *Indian J. Phys.* 24(7):303-8. 7/50.

De, M. L. 825  
Electron microscopic determination of the size and shape of a new plant virus (sann hemp mosaic). *Indian J. Phys.* 25(11):525-9. 11/51.

De, M. L., A. Guha & N. N. Das Gupta 826  
Phase contrast and electron microscopic studies on the nuclear apparatus of *Escherichia coli*. *Proc. Roy. Soc. London*. 141B:199-203. 1953.

De, M. L., A. Guha & N. N. Das Gupta 827  
A variant of *Bacterium coli*. *Nature*. 171:879. 5/16/53.

De, M. L. & D. K. Saha 828  
Distortion in electron lens. *Indian J. Phys.* 28(6):263-8. 6/54.

Deane, Darrell D., F. E. Nelson, F. C. Ryser & P. H. Carr 829  
*Streptococcus thermophilus* bacteriophage from Swiss cheese whey. *J. Dairy Sci.* 36(2):185-91. 2/53.

Deaver, George L. & Walter J. Frajola 829a  
Cytochemical studies of thrombocytes utilizing dark-field, phase-contrast, and electron optics. (Abstract, Paper #H20, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) *J. Appl. Phys.* 25:1467. 1954.

De Deken-Grenson, M. 830  
Grana formation and synthesis of chloroplastic proteins induced by light in portions of etiolated leaves. *Biochim. et Biophys. Acta*. 14:203-11. 1954.

Deflandre, Georges & Charles Fert 831  
Sur la structure fine de quelques coccolithes fossiles observés au microscope électronique. Signification morphogénétique et application à la systématique. *Compt. rend. acad. sci.* 234: 2100-2. 5/19/52.

Deflandre, G. & Ch. Fert 832  
Application du microscope électronique à l'étude des Coccolithophoridés. *Bull. soc. hist. nat. Toulouse*. 88(3-4):301-13. 1953.

Deflandre, Georges & Charles Fert 833  
Étude des Coccolithophoridés des vases actuelles au microscope électronique. Orientation des particules élémentaires de calcaire en rapport avec les notions d'*Heliolithae* et d'*Ortholithae*. *Compt. rend. acad. sci.* 236:328-30. 1/19/53.

Deflandre, George & Charles Fert 834  
Observations sur les Coccolithophoridés actuels et fossiles en microscopie ordinaire et électronique. *Ann. Paleontol.* 40:115-76. 1954.

Degenhard, W. 835  
Fokussierungseffekte bei der Schragbedampfung. *Naturwissenschaften*. 41(24):572-3. 1954.

De Gramont, Armand 836  
Microscopie électronique et protonique.



- J. radiol. et électrol. 33(11/12):637-40. 1952.
- De Haas, Ernst 837  
Graticules as guides in electron-microscope metallography. Nature. 166:482-3. 9/16/50.
- De Haas, E. & D. Lundquist 838  
Studies of silicon carbides with the electron microscope. Appl. Sci. Research. B1:181-6. 1950.
- De Haas, Ernst 839  
Tests on dust separators with the Siegbahn-Schölander electron microscope. Arkiv Fysik. 4:415-21. 1952.
- Dekeyser, W., S. Amelinckx, E. Votava & G. Vandermeerssche 840  
Electron microscopic observations of 111 faces of ZnS crystals. Phil. Mag. 44:1142-4. 10/53.
- Dekeyser, W. L. & L. Degueudre 841  
Note sur les rapports entre la morphologie et la structure de kaolins et halloysites. Rapport Européen Congrès Toeg. Em. Gent, 4/7-10/54. :319-26.
- Delisle, Laurence 842  
Electron microscopic observations of the effect of restoration on the substructure of copper. Rev. mét. 50:665-82. 1953.
- Delisle, Laurence 843  
Electron microscope study of the effect of cold work on the subgrain structure of copper. J. Metals. 5:1-7. 5/53.
- Dempsey, Edward W. 844  
Electron microscopy of the visceral yolk-sac epithelium of the guinea pig. Am. J. Anat. 93(3):331-64. 11/53.
- Dempsey, E. W. & A. I. Lansing 845  
Improved knife-holders for thin-sectioning with rotary microtomes. Proc. Soc. Exptl. Biol. Med. 82:253-6. 1953.
- Dempsey, Edward W. & Roy R. Peterson 846  
Electron microscopic observations on the thyroid glands of normal, hypophysectomized, cold-exposed and thiouracil-treated rats. Endocrinology. 56:46-58. 1/55.
- Dempsey, E. W. & G. B. Wislocki 847  
An electron microscopic study of the blood-brain barrier in the rat, employing silver nitrate as a vital stain. J. Biophys. Biochem. Cytol. 1(3):245-56. 5/25/55.
- Dempsey, Edward W. & G. B. Wislocki 848  
The use of silver nitrate as a vital stain, and its distribution in several mammalian tissues as studied with the electron microscope. J. Biophys. Biochem. Cytol. 1(2):111-8. 3/55.
- Dempsey, Ed. W., George B. Wislocki & Emmanuel C. Amoroso 849  
Electron microscopy of the pig's placenta, with especial reference to the cell-membranes of the endometrium and chorion. Am. J. Anat. 96(1):65-102. 1/55.
- Dent, Roy F., Jr., Melvin Barhite & Erving F. Geever 850  
Technical problems in direct tissue studies with the electron microscope. Am. J. Clin. Path. 21:836-41. 9/52.
- Denuce, J. M. & G. Vandermeerssche 851  
Electronenmicroscopische studie van de Tracheën der Spinklieren bij *Galleria mellonella*. Natuurw. Tijdschr. Ghent. 34:187-90. 1952.
- Denuce, J. M. & G. Vandermeerssche 852  
Etude au microscope électronique des trachées des glandes sericigenes de *Galleria mellonella*. Ann. soc. zool. Belg. 83(2):183-8. 1952.
- Denuce, J. M. & G. Vandermeerssche 853  
Etude au microscope électronique des trachées des larves d'insectes. Exptl. Cell Research. 6:76-8. 1954.
- Denuces, A.R.T. 854  
Electron microscopy of residual chromosomes. (Abstract, Paper #19, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:112. 1951.
- Denuces, A.R.T. 855  
Preparations for electron microscopy of residual chromosomes. Science. 113:203-6. 2/23/51.
- Denuces, A.R.T. 856  
On the identity of isolated chromosomes. (Abstract, Paper #36, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:162-3. 1/52.
- Denuces, A.R.T. 857  
On the identity of "isolated chromosomes": I. Comparison of chromatin threads obtained by two radically different mechanical means. Exptl. Cell Research. 3:540-52. 1952.
- Denuces, A.R.T. 858  
Isolated chromosomes: Identity and use in cancer research. (Abstract, Paper #44, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:117. 1953.
- Denuces, A.R.T. 859  
On the identity of "isolated chromosomes". II. Distorted nuclei in the production of chromatin threads. III. Length of chromatin threads and speed of the Waring blender. Exptl. Cell Research. 4:333-48. 5/53.
- Denuces, A.R.T. 860  
The Electron Microscope Society of America. Science. 119:309-10. 3/5/54.
- Denuces, A.R.T., John J. Bieseke, Theodor R. Marcus & Frances C. Mottram 861  
Isolated human chromosomes: Lengths in normal and cancerous subjects. (Abstract, Paper #61, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1422. 11/53.
- Denuces, A.R.T., Theodor R. Marcus & Frances C. Mottram 862  
Isolated chromosomes: Claims of regular helical structures. (Abstract, Paper #48, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1420. 11/53.
- Denuces, A.R.T. & Frances C. Mottram 863  
Note on nucleolonemata in human cultured cells. J. Biophys. Biochem. Cytol. 1(2):185-6. 3/25/55.
- Denuces, A.R.T. & C. A. Senseney 864



Isolated chromosomes and casual contaminants in electron microscopy. *Experientia*. 9(6):210. 1953.

De Puytorac, Pierre 865  
Mise en évidence, par le microscope électronique, de plaques de revêtement à la surface du corps des Astomes. *Compt. rend. acad. sci.* 234:2646-8. 6/30/52.

De Putorac, Pierre 866  
Contribution à l'étude cytologique et taxinomique des Infusoires Astomes. *Ann. sci. nat. Zool. et biol. animale*. 11:85-270. 1954.

De Robertis, E. 867  
Estudio con el microscopio electrónico, de la transmisión nerviosa del Virus B. *Inst. invest. cienc. biol. Montevideo, Publs.* 1:167-72. 1951.

De Robertis, E. 868  
Electron microscope studies of circulating blood cells. 4th Int. Cong. Int. Soc. Hematol. 9/20-7/52. *Proc.* :67-85.

De Robertis, E. 869  
Situación de la microscopía electrónica en Latino America. *Bol. Centro Coop. Científica, Montevideo*. 2:4-20. 6-7/52.

De Robertis, E. 870  
Electron micrographs of myelin figures and the problem of submicroscopic nerve fibers. *Exptl. Cell Research*. 4(2):477-9. 1953.

De Robertis, E. 871  
Electron microscopy in Latin America. *Science*. 119:301-2. 3/5/54.

De Robertis, Eduardo 872  
The nucleo-cytoplasmic relationship and the basophilic substance (ergastoplasm) of nerve cells (electron microscope observations). *J. Histochem. Cytochem.* 2(5):341-5. 1954.

De Robertis, E. 873  
The submicroscopic organization of the nerve axon as a basis of nerve function. *Gaz. méd. port.* 7(1):253-70. 1954.

De Robertis, E. 874  
Electron microscope observations of the platelet-fibrin relationship in blood clotting. *Blood*. 10(5):528-33. 5/55.

De Robertis, Eduardo 875  
Submicroscopic organization of some synaptic regions. An electron microscope study of the synapse. *Acta Neurol. (Latinoamericana)*. 1(1):3-15. 1955.

De Robertis, Eduardo & Stanley H. Bennett 876  
A submicroscopic vesicular component in nerve satellite cells and in Schwann cells. *Anat. Record. Suppl.* 118:294-5. 2/54.

De Robertis, E. & H. Stanley Bennett 877  
Submicroscopic vesicular component in the synapse. *Federation Proc.* 13(1):35. 3/54.

De Robertis, E. D. & H. S. Bennett 878  
A submicroscopic vesicular component of Schwann cells and nerve satellite cells. *Exptl. Cell Research*. 6:543-5. 1954.

De Robertis, E. D. P. & Stanley Bennett 879  
Some features of fine structure of cytoplasm of cells in the earthworm nerve cord.

In Symposium on fine structure of cells, held at 8th Cong. of Cell Biology Leyden, 1954. :261-73. Groningen, P. Noordhoff, 1955.

De Robertis, E. P. & H. S. Bennett 880  
Some features of the submicroscopic morphology of synapses in frog and earthworm. *J. Biophys. Biochem. Cytol.* 1(1):47-58. 1/25/55.

De Robertis, E., R. Canzani, G. Gasic & B. Epstein 881  
A particulate component in the blood plasma of transmitted mouse leukemia. (Abstract, Paper #40, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) *J. Appl. Phys.* 24:1419. 11/53.

De Robertis, E., R. Canzani, G. Gasic & B. Epstein 882  
Particulate component in the blood plasma of mice with transplantable leukemia. *Blood*. 10(4):325-33. 1955.

De Robertis, Eduardo & Humberto Casarotti 883  
A filamentous macromolecular component of meiotic chromosomes. (Abstract, Paper #18, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) *J. Appl. Phys.* 26:1393-4. 1955.

De Robertis, E. & B. Epstein 884  
Electron microscope study of anaplasmosis in bovine red blood cells. *Proc. Soc. Exptl. Biol. Med.* 77:254-8. 6/51.

De Robertis, E. & B. Epstein 885  
Estudio con el microscopio electrónico de la anaplasmosis en los glóbulos rojos del bovino. *Bol. Direcc. Ganad., Montevideo*. 33(2):73-9. 1952.

De Robertis, E. & C. M. Franchi 886  
Ultraestructura del axón en cortes de fibras mielínicas. *Arch. soc. biol. Montevideo*. 17:112-5. 1950.

De Robertis, E. & C. M. Franchi 887  
Electron microscope observation on the fine structure of bacterial flagella. *Exptl. Cell Research*. 2:295-8. 1951.

De Robertis, E. & C. M. Franchi 888  
The submicroscopic organization of axon material isolated from myelin nerve fibers. (Abstract, Paper #54, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) *J. Appl. Phys.* 24:1421. 11/53.

De Robertis, E. & C. M. Franchi 889  
The submicroscopic organization of axon material isolated from myelin nerve fibers. *J. Exptl. Med.* 98(3):269-76. 9/1/53.

De Robertis, E. & C. M. Franchi 889a  
Further observations on the submicroscopic vesicular component of the synapse. (Abstract, Paper #H1, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) *J. Appl. Phys.* 25:1462. 1954.

De Robertis, E., C. M. Franchi & M. Podolsky 890  
Aerosol technique for the study of macromolecules with the electron microscope. *Biochim. et Biophys. Acta*. 11:507-16. 1953.

De Robertis, E., C. M. Franchi & J. R. Sotelo 891  
Demonstration of the axonic nature of neurotubules. *Inst. invest. cienc. biol. Montevideo, Publs.* 1:173-84. 1951.

- De Robertis, Eduardo & Guiseppe Levi 892  
The ultrastructure of nerve axons regenerated in tissue culture. (Abstract, Paper #22, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:112. 1951.
- De Robertis, E., P. Paseyro & Magdalena Reissig 893  
Electron microscopic studies of the action of thrombin on blood platelets. Blood. 8(7):587-97. 7/53.
- De Robertis, E. & Magdalena Reissig 894  
The submicroscopic organization of the ciliary and neuromotor apparatus of *Tetrahymena Geleii*. (Abstract, Paper #58, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1422. 11/53.
- De Robertis, E. & J. R. Sotelo 895  
Ultraestructura de fibras nerviosas en cultivo de tejidos. Arch. soc. biol. Montevideo. 17:115-7. 1950.
- De Robertis, E. & J. R. Sotelo 896  
Electron microscope study of cultured nervous tissue. Exptl. Cell Research. 3:433-52. 6/52.
- Der-Shvarts, G. V. 897  
The effect of destroying the radial symmetry of the focusing field on the resolution of magnetic objectives of the electron microscopes. Zhur. Tekh. Fiz. 24:859-70. 1954.
- Desikachary, T. V. 898  
Electron microscope study of the diatom-wall structure. J. Sci. Ind. Research, India. 11B(11):491-500. 1952.
- Desikachary, T. V. 899  
Electron microscope study of diatom wall structure. V. and VI. Trans. Am. Microscop. Soc. 73(3):274-7. 1954, and Mikroskopie. 9(5/6):168-78. 1954.
- Desikachary, T. V. & A. A. Aleem 900  
Electron microscope study of diatom wall structure. VII. J. Sci. Ind. Research, India. 14C:42-6. 1955.
- Desikachary, T. V. & Kanwar Bahadur 901  
Electron microscope study of diatom wall structure. II. Genus *Chaetoceros* Ehrenb. J. Sci. Ind. Research, India. 13B(2):92-4. 1954. III. *Isthmia nervosa* Kütz. Am. J. Botany. 41(8):616-9. 1954.
- Desikachary, T. V. & Kanwar Bahadur 902  
Electron microscope study of diatom wall structure: IV. *Triceratium dubium* Brightwell. J. Sci. Ind. Research, India. 13B:240-3. 1954.
- Desjardins, P. R., C. A. Senseney & G. E. Hess 903  
Further studies on the electron microscopy of purified tobacco ringspot virus. Phytopathology. 43(12):687-90. 1953.
- de Souza-Araujo, H. C. 904  
Morfologia do *Mycobacterium leprae* hominis e do *M. leprae* muris. Estudo baseado na microscopia eletrônica e de contraste de fases. Mem. inst. Oswaldo Cruz. 53(2-4):389-96. 1955.
- de Souza Santos, Helena & Persio, G. A. Edwards & Paulo Sawaya 905

- Electron microscopy of insect tracheal structures. Anais acad. brasil. cienc. 26(2):309-15. 1954.
- de Souza Santos, Persio 906  
Recuperação de grades metálicas de microscopia eletrônica. (Recovery of metallic grids for electron microscopy.) Ciência e cultura. 4(1-2):46. 1952.
- de Souza Santos, Persio 907  
Method for recovery of metallic grids for electron microscopy. Nature. 175:351. 2/19/55.
- de Souza Santos, Persio & Helena Brandao Lopes 908  
A method of preparing crystals that undergo changes under electron bombardment in an electron microscope. Nature. 169:498-9. 3/22/52.
- de Souza Santos, Persio & Helena Lopes de Souza Santos 909  
Bibliografia sobre as aplicações do microscópio eletrônico ao estudo de argilas. Brazil, Ministério Agr., Dept. Nacl. prod. mineral. Div. geol. e mineral., Notas prelim. e estud. 57. 11/52. 11p.  
(see also 3470, 3471)
- Dessens, Henri & Charles Fert 910  
Grilles supports en fils d'araignée pour microscopie électronique. Compt. rend. soc. biol. 232:606-8. 2/12/53.
- Dettmer, N. 911  
Elektronenmikroskopische Untersuchung der elastischen Fasern im Flügelband der Taube und ihre Beziehung zum übrigen Bindegewebe. Z. Zellforsch. 37:89-100. 1952.
- Dettmer, Norbert 912  
Entwicklung und Probleme elektronenmikroskopischer Bindegewebsforschung. Aerztl. Wschr. 10(31):709-13. 8/55.
- Dettmer, N., I. Neckel & H. Ruska 913  
Elektronenmikroskopische Befunde an versilberten kollagenen Fibrillen. Z. wiss. Mikroskop. 60:290-7. 9/51.
- Dettmer, Norbert & Willy Schwarz 914  
Die qualitative elektronenmikroskopische Darstellung von Stoffen mit der Gruppe  $\text{CHOH-CHOH}$ . Ein Beitrag zur Elektronenfarbung. Z. wiss. Mikroskop. 61:423-9. 4/54.
- Deubner, Benedict & Fritz Hieber 915  
Vergleichende Messungen an Aufsicht- und Durchsichtleuchtschirmen bei Elektronenanregung. Z. angew. Phys. 6(3):112-5. 1954.
- Deutschen Gesellschaft für Elektronenmikroskopie. 916  
Einladung zur 4. Jahrestagung der Deutschen Gesellschaft für Elektronenmikroskopie, in Tübingen vom 6. bis 8. Juni 1952. Optik. 9:189-91. 1952.
- Devaux, J. & R. Lecuir 917  
Le frittage de la magnésie exemple d'application du microscope électronique dans l'industrie céramique. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :464-9. Paris, Ed. Rev. Optique, 1953.
- De Wolff, P. M. & A. L. Houwink 918  
Some considerations on cellulose fibril orientation in growing cell walls. Acta Botan. Neerl. 3(3):386-7. 1954.



- Dianzani, M. U. & G. F. Bahr 919  
Electron microscope investigation of mitochondria isolated from normal and steatotic livers by differential centrifugation. *Acta Pathol. Microbiol. Scand.* 35(1):25-38. 1954.
- Dickenson, P. B. & K. D. Macdonald 920  
An electron microscope examination of the initial cell stage in *Streptomyces* spp. *J. Gen. Microbiol.* 13(1):84-90. 8/55.
- Diekmann, H., E. Lindner & E. Stopka 921  
II. Befunde bei interstitieller plasmazellulärer Pnenumonie. *Beitr. pathol. Anat. u. allgem. Pathol.* 114(1):48-64. 1954.
- Dienes, L. 922  
Electron micrographs made from L forms of proteus and two human strains of pleuropneumonia-like organisms. *J. Bacteriol.* 66(3):280-4. 9/53.
- Dienes, L. 923  
Some new observations on L forms of bacteria. *J. Bacteriol.* 66(3):274-8. 9/53.
- Dieter, George E. 924  
Inorganic replica techniques for use with the electron microscope. *Ballistics Research Labs. rept. no. 949.* 8/55. 23p. U. S. Army, Aberdeen Proving Grounds, Maryland.
- Dillon, R. E., E. B. Bradford & R. D. Andrews, Jr. 925  
Plasticizing a synthetic latex. *Industr. Engng. Chem.* 45:728-35. 4/53.
- Discussion on precipitation-hardening. 926  
*J. Inst. Metals.* 610-5. 8/54.
- Dragosz, J. 927  
The electron gun filament in the electron microscope. *J. Sci. Instr.* 27:77. 3/50.
- Dmochowski, Leon 928  
Discussion. *J. Natl. Cancer Inst.* 15(3):785-8. 12/54.
- Dmochowski, Leon, Cushman D. Haagensen & Dan H. Moore 929  
A study in the electron microscope of thin sections of normal and malignant mammary tissues of mice. (Abstract, Paper #38, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) *J. Appl. Phys.* 24:1419. 11/53.
- Dmochowski, Leon, Cushman D. Haagensen & Dan H. Moore 929a  
Further studies in the electron microscope of thin sections of normal and malignant mammary tissues of mice of high- and low-breast-cancer strains. (Abstract, Paper #H11, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) *J. Appl. Phys.* 25:1464. 1954.
- Dmochowski, L., C. D. Haagensen & Dan H. Moore 930  
Studies of sections of normal and malignant cells of high- and low-cancer-strain mice by means of electron microscope. *Acta Unio Intern. contra Cancrum.* 11(6):640-5. 1955.
- Dmochowski, L. & R. D. Passey 931  
Attempts at tumor virus isolation. *Ann. N. Y. Acad. Sci.* 54:1035-66. 7/10/52.
- Dobry, A., S. Guinand & A. Mathieu-Sicaud 932  
Sur l'hydroxyde de thorium colloidal. 1.
- Sur la forme et la dimension des particules colloïdales. *J. chim. phys.* 50(10):501-6. 1953.
- Dodd, Edward E. 933  
The statistics of liquid spray and dust electrification by the Hopper and Laby method. *J. Appl. Phys.* 24:73-80. 1953.
- Dolder, K. T. & O. Klemperer 934  
Space charge effects in electron optical systems. *J. Appl. Phys.* 26(12):1461-71. 1955.
- Dollander, A. 935  
La structure du cortex de l'oeuf de Triton observée sur coupes fines et ultrafines au microscope ordinaire, et au microscope électronique. *Compt. rend. soc. biol.* 148:152-4. 1954.
- Dollander, A. 936  
Variations de structure du cortex de l'oeuf. *Compt. rend. assoc. anat.* (41st meeting, Genes, 4/12-4/54.) 4p.
- Donald, Heather B. & A. Isaacs 937  
Counts of influenza virus particles. *J. Gen. Microbiol.* 10(3):457-64. 6/54.
- Donald, Heather B. & A. Isaacs 938  
Some properties of influenza virus filaments shown by electron microscopic particle counts. *J. Gen. Microbiol.* 11(2):325-31. 10/54.
- Dondero, N. C. & M. R. Zelle 939  
A method for retaining bacterial cells in place for staining and cytochemical tests for light or electron microscopy. *J. Histochem. Cytochem.* 1:415-9. 11/53.
- Donnet, J. B. 940  
Contribution à l'étude des dimensions des macromolécules rigides. Comparaison des résultats de la microscopie électronique et des lois hydrodynamiques. III. Résultats expérimentaux obtenus à l'aide d'un sol de virus de la mosaïque du tabac. *J. chim. phys.* 50(6):363-76. 1953.
- Donnet, J. B. 941  
Contribution à l'étude des dimensions des macromolécules rigides. Comparaison des résultats de la microscopie électronique et des lois hydrodynamiques. IV. Résultats expérimentaux obtenus à l'aide d'un sol de virus de la mosaïque du tabac. *J. chim. phys.* 50:377-9. 1953.
- Donnet, J. B. 942  
Contribution à l'étude des dimensions des macromolécules rigides. Comparaison des résultats de la microscopie électronique et des lois hydrodynamiques. V. Résultats expérimentaux obtenus à l'aide d'un sol aqueux de noir de carbone. *J. chim. phys.* 50:380-9. 1953.
- Donnet, J. B. 943  
Quelques applications au microscope électronique en physique macromoléculaire. 1st Int. Cong. Electron Micros., Paris, 9/50. *Proc.* :470-8. Paris, Ed. Rev. Optique, 1953.
- Donnet, Jean-Baptiste & Jacqueline Boissier 944  
Sur la détermination de la forme et de la dimension des particules de noir de carbone par microscopie électronique. *Compt. rend. acad. sci.* 234:195-8. 1/7/52.
- Donovan, G. E. & E. Stafford 945  
Colour in electron microscopy. *Nature.* 170:1126-7. 12/27/52.



- Douglas, David & Jas. C. Eaton 946  
Paroxysmal nocturnal haemoglobinuria: March-  
iafava-Micheli syndrome. *Lancet*. 946-8. 7/5/55.
- Dragesco, Jean 947  
Le Flagellé *Oxyrrhis marina*: cytologie, tri-  
chocystes, position systématique. *Bull. micro-  
scop. appl.* 2(11-12):148-57. 1952.
- Dragesco, Jean 948  
Sur la structure des trichocystes toxiques  
des Infusoires Holotriches Gymnostomes (note  
préliminaire). *Bull. microscop. appl.* 2(7-8)  
:92-8. 1952.
- Draper, M. H. & A. J. Hodge 949  
Electron-induced microincineration with the  
electron microscope. I. Distribution of resid-  
ual mineral content in vertebrate striated  
muscle. *Australian J. Exptl. Biol. Med. Sci.*  
28:549-57. 1950.
- Drechsler, Michael 950  
Messung von Oberflächendiffusions-Koeffiz-  
ienten und Platzwechselenergien von Barium auf  
Wolfram-Einkristallflächen mit dem Feldelek-  
tronenmikroskop. *Z. Elektrochem.* 58(5):340-5.  
1954.
- Drechsler, Michael & Erwin Henkel 951  
Feldemissions-Stromdichten und Oberflächen-  
feldstärken bei Feldemissionsmikroskopen sowie  
Methoden zur Bestimmung des Spitzenradius, der  
Spitzenform, der Vergrößerung und des Auflös-  
ungsvermögens. *Z. angew. Phys.* 6(8):341-6.  
1954.
- Drechsler, M. & E. W. Müller 952  
Die Bestimmung der Polarisierbarkeit von  
Atomen und Molekülen mit dem Feldelektronen-  
mikroskop. *Z. Physik.* 132:195-211. 1952.
- Drechsler, M. & E. W. Müller 953  
Wirkungsweise und Anwendungsmöglichkeiten  
des Feldelektronenmikroskopes in der Metal-  
lurgie. *Metall.* 6(13-14):341-5. 1952.
- Drechsler, M., G. Pankow & R. Vanselow 954  
Über den Nachweis von Versetzungen beim  
Abbau von Wolfram-, Tantal- und Nickel-Ein-  
kristallen. *Z. physik. Chem. Frankfurt.* 4  
(5/6):249-63. 1955.
- Drummond, D. G., ed. 955  
The practice of electron microscopy. *J.*  
*Roy. Microscop. Soc.* 70:1-141. 3/50.
- Drummond, D. G. 956  
The products of fragmentation of textile  
fibres as seen in the electron microscope.  
*Shirley Inst. Mem.* 26:53-8. 12/52.
- Drummond, D. G. 957  
Summarized proceedings of a conference on  
the optical and electron-microscopical proper-  
ties of textile fibres, Manchester, October,  
1952. *Brit. J. Appl. Phys.* 4:119-24. 4/53.
- Drummond, D. G. & G. Liebmann 958  
Technique of electron microscopy. Confer-  
ence at St. Andrews. (*Electron Microscopy*  
Group of the Institute of Physics, 6/19-21/51.)  
*Nature.* 168:819-21. 11/10/51.
- Duguid, J. P., Isabel W. Smith, G. Dempster  
& P. N. Edmunds 959  
Non-flagellar filamentous appendages (Fim-  
briae) and haemagglutinating activity in  
*Bacterium coli*. *J. Pathol. Bacteriol.* 70(2)  
:335-48. 1955.
- Duguid, J. P., Isabel W. Smith & J. F.  
Wilkinson 960  
Volutin production in *Bacterium aerogenes*  
due to development of an acid reaction. *J.*  
*Pathol. Bacteriol.* 67(2):289-300. 1954.
- Duhm, B. & R. Gönner 961  
Über eine Methode zum Vergleich desselben  
Objektes im Licht- und Elektronenmikroskop.  
*Z. wiss. Mikroskop.* 61:259-69. 3/53.
- Dujarric de la Rivière, René, Geneviève  
Cateigne, Claude Hannoun & Pierre Millot 962  
Sur l'existence d'un virus dans les sécré-  
tions des Bovidés atteints de coryza gangréneux.  
*Compt. rend. acad. sci.* 236:2557-9. 6/29/53.
- Duncan, Donald & Leland Antes 963  
Some electron microscope observations on the  
structure of myelin sheath and axis cylinder in  
thin sections. *Texas Repts. Biol. and Med.*  
8:329-40. 1950.
- Dupouy, Gaston 964  
Quelques travaux effectués avec le microscope  
électronique magnétique. *Rev. opt.* 29:89-100.  
2/50.
- Dupouy, Gaston 965  
Éléments d'optique électronique. Paris,  
Librairie Armand Colin, 1952. 218p.
- Durand, M. Émile 966  
Le calcul numérique des trajectoires élec-  
troniques. *Congrès des Sociétés Savantes*,  
78e compt. rend. Toulouse, 4/53. :23-48.
- Durand, Émile M. 967  
Détermination d'une trajectoire électronique  
par dérivations successives. *Compt. rend. acad.*  
*sci.* 236:471-3. 2/2/53.
- Durand, Émile 968  
Détermination d'une trajectoire électronique  
par intégrations successives. *Compt. rend.*  
*acad. sci.* 236:364-6. 1/26/53.
- Durand, Émile 969  
Une présentation simple de la théorie générale  
des systèmes de révolution en optique électro-  
nique. (Relativité et aberrations comprises.)  
*Rev. opt.* 33(12):617-29. 1954.
- Durand, Émile 970  
Sur la possibilité de définir un potentiel  
scalaire magnétique à l'intérieur des courants  
et son application au calcul des lentilles élec-  
troniques magnétiques. *Compt. rend. acad. sci.*  
240:2390-3. 6/20/55.
- Durandau, Pierre 971  
Système pendulaire pour la mesure électro-  
dynamique du champ le long de l'axe d'une élec-  
tronique magnétique. *Compt. rend. soc. biol.*  
236:366-8. 1/26/53.
- Dutky, S. R. & E. L. Gooden 972  
*Coxiella popilliae*, n. sp. a rickettsia caus-  
ing blue disease of Japanese beetle larvae. *J.*  
*Bacteriol.* 63:743-50. 6/52.
- Dutta, B. N., N. N. Das, M. L. De,  
A. Guha & S. Nandi 973  
New method for study of intracellular para-  
sites with the electron microscope. *Science.*  
120:428-30. 9/10/54.

- Dyal, R. S. 974  
Mica leptyls and wavellite content of clay fraction from Gainesville loamy fine sand of Florida. *Soil Sci.* 17:55-8. 1/53.
- Dwornik, E. & M. Ross 975  
Application of electron microscope to mineralogic studies. *Am. Mineralogist.* 40:261-74. 1955.
- Dwornik, Edward J. & Martin S. Tischler 976  
Electron microscope and electron diffraction studies of vanadiferous clays from the Colorado plateau. (Abstract, Paper #5, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) *J. Appl. Phys.* 26:1391. 1955.
- Dyke, W. P., J. K. Trolan, W. W. Dolan & George Barnes 977  
The field emitter: fabrication, electron microscopy and electric field calculations. *J. Appl. Phys.* 24(5):570-6. 1953.
- Dymowska, Z. & A. Feltynowski 978  
Leptospiiry w mikroskopie elektronowym. *Acta Microbiol. Polon.* 2(2-3):125-8. 1953.
- Eaves, G. 979  
Recovery of electron microscope grids. *Nature.* 169:975-6. 6/7/52.
- Eaves, G. & T. H. Flewett 980  
Cutting of sections for electron microscopy with a modified "Cambridge" rocking microtome. *Exptl. Cell Research.* 6:155-61. 1954.
- Eaves, G. & T. H. Flewett 981  
The structure of vaccinia virus. *J. Pathol. Bacteriol.* 68(2):633-4. 1954.
- Eaves, G. & T. H. Flewett 982  
The structure of fowl-pox inclusions (Bollinger bodies). *J. Hyg.* 53(1):102-5. 3/55.
- Eberspaecher, Otto 983  
Elektronenmikroskopische Untersuchungen an aktiven, aus verschiedenen Hydraten hergestellten Aluminiumoxyden. *Z. wiss. Mikroskop.* 60:393-6. 3/52.
- Ebert, L. & R. Fiala 984  
Ein neuer anorganischer Faserkristall. (Ein Beitrag zu den Gesetzen der Fasertextur.) *Monatsh. Chem.* 81(3):414-8. 1950.
- Eckardt, A. & B. Elschner 985  
Elektronenmikroskopische Untersuchungen ferromagnetischer Elementarbezirke. *Naturwissenschaften.* 39:566-7. 1952.
- Eckart, F. 986  
Zur Entwicklung von Bildwandlern und Bildverstärkern. *Ann. Physik.* 14(1-2):1-13. 1954.
- Eckert, E. A., D. G. Sharp, D. Beard, I. Green & J. W. Beard 987  
Virus of avian erythromyeloblastic leukosis. IX. Antigenic constitution and immunologic characterization. *J. Natl. Cancer Inst.* 16(3):593-64. 12/55.
- Eddy, Bernice E. & Ralph W. Wyckoff 988  
Influenza virus in sectioned tissues. *Proc. Soc. Exptl. Biol. Med.* 75:290-3. 10/50.
- Eden, M., A. W. Pratt & H. Kahler 989  
A microtome specimen holder advanced by thermal expansion. *Rev. Sci. Instr.* 21:802-4. 9/50.
- Eden, A., A. W. Pratt & H. Kahler 990  
A microtome specimen holder advanced by thermal expansion. (Abstract, Paper #42, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) *J. Appl. Phys.* 22:115. 1951.
- Edlinger, E. & J. Giuntini 991  
Bactériophagie du bacille typhique par quelques phages Vi observée au microscope électronique. *Ann. inst. Pasteur.* 84:969-72. 5/53.
- Edsall, John T. 992  
Electron microscope studies on size and shape of proteins. In *The Proteins*. Edited by H. Neurath & K. Bailey. Vol. I, Pt. B. :571-7. New York, Academic Press, 1953.
- Edwards, G. A. 993  
A relação entre a forma e a função. *Ciência e cultura.* 6(2):73-8. 1954.
- Edwards, G. A., H. de Souza Santos, P. de Souza Santos, A. Brunner, P. Sawaya & H. Ruska 994  
Electron microscopy in the study of insects. *Rev. Bras. de Ent.* 2:97-104. 12/54.
- Edwards, G. A. & Persio de Souza Santos 995  
A estrutura da membrana peritrófica dos insetos. *Ciência e cultura.* 5(4):195-6. 1953.
- Edwards, G. A., P. de Souza Santos, H. de Souza Santos, A. R. Hoge, A. Vallejo-Freire & P. Sawaya 996  
Estudos electrono-microscópicos de músculos estriados de répteis. *Mem inst. Butantan Sao Paulo.* 26:169-90. 1954.
- Edwards, G. A., Persio de Souza Santos, Helena de Souza Santos & Paulo Sawaya 997  
Estudo comparativo da ultraestrutura do músculo estriado com o microscópio eletrônico. *Ciência e cultura.* 5(1):27-31. 1953.
- Edwards, G. A., P. de Souza Santos, H. de Souza Santos & P. Sawaya 998  
Electron microscope studies of insect muscle. I. Flight and coxal muscle of *Hydrophilus piceus*. *Ann. Entomol. Soc. Amer.* 47(2):343-54. 1954.
- Edwards, George A., P. de Souza Santos, H. de Souza Santos & P. Sawaya 999  
Electron microscope studies of insect muscle. II. Flight and leg muscles of *Belostoma* and *Periplaneta*. *Ann. Entomol. Soc. Amer.* 47(3):459-67. 1954.
- Edwards, G. A., Persio de Souza Santos, H. de Souza Santos & Paulo Sawaya 1000  
Electron microscope studies of insect muscle. III. Variations in ultra structure. *Univ. São Paulo. Fac. filosof., ciênc. e letras, Zool.* 19:391-405. 1954.
- Edwards, George A. & Helmut Ruska 1001  
The function and metabolism of certain insect muscles in relation to their structure. *Quart. J. Microscop. Sci.* 96(2):151-9. 1955.
- Edwards, Mercedes R., Leopoldo M. Coutinho, George A. Edwards & Helmut Ruska 1002  
Estrutura de cloroplastos. *Ciência e cultura.* 7(2):89-96. 1955.
- Edwards, O. F. & C. H. Domermuth 1003



Electron microscope observations of a bacteriophage active against *Pseudomonas aeruginosa*. Trans. Kentucky Acad. Sci. 14(1):38-42. 2/53.

Ehret, C. F. & E. L. Powers 1004

Macronuclear and nucleolar development in *Paramecium bursaria*. Proc. Soc. Protozool. 3:14. 9/52, J. Protozool. 1(Suppl.) 8/54, and Exptl. Cell Research. 9(2):241-57. 1955.

Ehrhart, H. & A. Steigler 1005

Cytologische Untersuchungen an einem streptomycinabhängigen Stamm von *E. coli*. Z. hyg. Infektionskrankh. 138:561-72. 1954.

Eicke, R. 1006

Neues über die Feinstruktur der Zellwand verkieselter Hölzer. Ber. deut. botan. Ges. 65(7):246-8. 10/14/52.

Eicke, Ruth 1007

Was können elektronenmikroskopische Bilder über den Vorgang der Verkieselung fossiler Hölzer aussagen? Z. wiss. Mikroskop. 61(5):302-5. 1953.

Eicke, Ruth 1008

Beitrag zur Frage des Hoftupfelbaues der Koniferen. Ber. deut. botan. Ges. 67(6/7):213-7. 8/54.

Eicke, Ruth 1009

Elektronenmikroskopische Untersuchungen an verkieselten Koniferen. Palaeontographica. 97b:36-46. 1954.

Eisenstark, A., K. J. McMahon & Roma

Eisenstark 1010  
A cytological study of a pleomorphic strain of *Azotobacter* with the electron and phase microscopes and the Robinow nuclear-staining technique. J. Bacteriol. 59:75-81. 1950.

Eisenstark, A., C. B. Ward & T. S. Kyle 1011

A study of large bodies in *Azotobacter* agile. J. Bacteriol. 60:525-31. 11/50.

Ekholm, R., O. Hallen & T. Zelander 1012

Sharpening of knives for ultramicrotomy. Experientia. 11(9):361. 1955.

Elbers, P. F. 1013

Problems d'ultramicrotome. Rapport Euro-peés Congrès. Toeg. Em. Gent, 4/7-10/54. :41-3.

Electron-beam interferometer. Natl. 1014

Bur. Standards U.S. Tech. News Bull. 37:101-3. 7/53.

Elford, W. J., A. M. Guelin, J. E. Hotchin

& C. E. Challice 1015  
Le phénomène de la bactériophagie chez les anaérobies (*Welchia perfringens*). Ann. inst. Pasteur. 84:319. 2/53.

Elias, Hans 1016

Liver morphology. Biol. Revs. Cambridge Phil Soc. 30:263-310. 1955.

Elias, Hans & Theodore Cohen 1017

Geometrical analysis of inclusions in rat liver cells as seen in electronmicrograms. Z. Zellforsch u. mikroskop. Anat. 41(5):407-20. 1955.

Elias, Hans, A. Lazarowitz & Albert Sokol 1018

Contributions to the geometry of sectioning. IV. Bands, discs, plates and shells.

Z. wiss. Mikroskop. 62(7):417-26. 1955.

Elliot, R. L. & B. Manogue 1019

An electron microscope study of the surface structure of wool. J. Soc. Dyers Colourists. 68:12-4. 1952.

Ellis, Alfred L. & F. K. Iverson 1020

Quantitative metallography with the electron microscope. (Abstract, Paper #21, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:69. 1950.

Ellis, A. L. & L. E. Smith 1021

Some factors affecting the study of martensite and austenite. (Abstract, Paper #1, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:110. 1951.

Ellis, S. G. 1022

Laboratory modifications in the RCA Model EMC electron microscope. Rev. Sci. Instr. 21:255-7. 3/50.

Ellis, S. G. 1023

Performance tests on the RCA model EMC electron microscope. (Abstract, Paper #3, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:66. 1950.

Ellis, S. G. 1024

An empirical treatment of the influence of morphology and accelerating voltage on electron diffraction patterns. (Abstract, Paper #1, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:156. 1/52.

Ellis, S. G. 1025

Specimen charging in the electron microscope and some observations on the size of polystyrene latex particles. J. Appl. Phys. 23:728-32. 7/52.

Ellis, S. G. 1026

Some factors affecting the precision attainable in electron diffraction studies. (Abstract, Paper #4, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:112. 1953.

Ellis, S. G. 1027

Some techniques in electron microscopy. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :479-86. Paris, Ed. Rev. Optique, 1953.

Ellis, S. G. & James Hillier 1028

Some attempts to produce structureless films, replicas, and shadows. (Abstract, Paper #8, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:157. 1/52.

Ells, C. E. & G. D. Scott 1029

The structure of sputtered silver films. J. Appl. Phys. 23:31-4. 1/52.

Ells, C. E. & G. D. Scott 1030

The structure of sputtered silver films. (Abstract, Paper #14, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:158. 1/52.

Elmes, P. C. & J. C. White 1031

The rheological problem in chronic bronchitis. 2nd Int. Cong. Rheology, Oxford, 7/26-31/53. Proc. :382-8.



- Emerton, H. W. 1032  
A method of indicating the scale of reflection electron micrographs. Research Correspondence. 7:S56. 10/54.
- Emerton, H. W., J. Watts, K. Amboss & A. Simpson 1033  
Reflection electron microscopy of fibres: a new research method. Brit. Paper & Board Research Assoc./T/38. 20p. 7/54.
- Emerton, H. W., P. E. Wrist, J. Sikorski & H. J. Woods 1034  
Electron-microscopy of degraded cellulose fibres. J. Textile Inst. 43:T563-4. 11/52.
- Endter, Friedrich 1035  
Die elektronenmikroskopische Struktur deutscher Gas-Russe. Kautschuk u. Gummi. 3 (8):273-6. 8/50.
- Endter, Friedrich 1036  
Zur Struktur der technischen Russe. Z. anorg. u. allgem. Chem. 263(4):191-9. 1950.
- Endter, Friedrich 1037  
Zum Aufbau des Systems Füllstoff/Kautschuk. Kautschuk u. Gummi. 5(2):17-22. 1952.
- Enell, H., Chr. Lingen, K.-A. Melin & S. Hedman 1038  
Elektronenmikroskopische Studien an Tuberkelbazillen. Z. wiss. Mikroskop. 60:381-5. 3/52.
- Enghusen, Hartmut 1039  
Elektronenoptische Darstellungen von Streptomyceten-Sporen und -Hüllen. Arch. Mikrobiol. 21:329-34. 1955.
- Engström, H. 1040  
The structure of tracheal cilia. Acta Oto-Laryngol. 39:360-6. 5/51.
- Engström, Hans 1041  
The structure of the basilar membrane. Acta oto rhino lar. belg. 6:531-42. 1955.
- Engström, H. & G. Bloom 1042  
The structure of the olfactory region in man. Acta Oto-Laryngol. 43(1):11-21. 2/53.
- Engström, H., A. Frisk & J. Wersäll 1043  
Electron microscopy for the study of the minute structure of yeast fungi. Acta Pathol. Microbiol. Scand. 35(3):256-8. 1954.
- Engström, Hans & Fritiof S. Sjöstrand 1044  
The structure and innervation of the cochlear hair cells. Acta Oto-Laryngol. 44(5-6):490-501. 1954.
- Engström, H., F. S. Sjöstrand & H. Spoendlin 1045  
Feinstruktur der Stria vascularis beim Meerschweinchen. Eine licht- und elektronenmikroskopische Studie. Pract. Oto rhino lar. Basel. 17(2):69-79. 1955.
- Engström, H. & J. Wersäll 1046  
Some principles in the structure of vibratile cilia. Ann. Otol. Rhinol. & Laryngol. 61:1-12. 12/52.
- Engström, H. & J. Wersäll 1047  
Is there a special nutritive cellular system around the hair cells in the organ of Corti? Ann. Otol. Rhinol. & Laryngol. 62 (2):507. 1953.

- Engström, H. & J. Wersäll 1048  
Structure of the organ of Corti. 1. Outer hair cells. Acta Oto-Laryngol. 43:1-10. 1/53.
- Engström, H. & J. Wersäll 1049  
Structure of the organ of Corti. 2. Supporting structures and their relations to sensory cells and nerve endings. Acta Oto-Laryngol. 43:323-34. 4-5/53.
- Ennos, A. E. 1050  
Exposure time measurement in electron microscopy using a visual photometer. J. Sci. Instr. 29:299-300. 1952.
- Ennos, A. E. 1051  
The origin of specimen contamination in the electron microscope. Brit. J. Appl. Phys. 4:101-6. 4/53.
- Epstein, B., N. M. Fonseca & E. de Robertis 1052  
Electron microscope study of red cell membranes after experimental infection with the virus of foot-and-mouth disease. J. Exptl. Med. 94:171-6. 9/1/51.
- Epstein, B., N. M. Fonseca & E. de Robertis 1053  
Estudio con el microscopio electrónico de los estromas de glóbulos rojos después de la infección experimental con el virus de la fiebre aftosa. Ciencia e invest. Buenos Aires. 7:185-7. 4/51.
- Epstein, B., Magdalena Reissig & E. de Robertis 1054  
Studies by electron microscopy of thin sections of infectious myxomatosis in rabbits. J. Exptl. Med. 96:347-54. 10/1/52.
- Epstein, B., Magdalena Reissig & E. de Robertis 1055  
Electron microscopy of thin sections in the infectious myxomatosis of rabbits. (Abstract, Paper #31, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:115. 1953.
- Epstein, H. T. 1056  
On the structure of monolayers and multilayers of polar hydrocarbon molecules on solid substrates. J. Phys. & Colloid Chem. 54:1053-69. 7/50.
- Epstein, H. T. & A. J. Tousimis 1057  
A simplified method for freeze-drying electron microscope specimens. Arch. Biochem. and Biophys. 50:263-8. 6/54.
- Epstein, M. A. 1058  
The electron microscopy of tissue cells. A brief review including reference to virus-infected cells. Arch. Middlesex Hosp. 5(4):242-52. 1955.
- Epstein, M. A. 1059  
A simple technique for the electron microscopy of fresh ascites tumour cells. Exptl. Cell Research. 9:547-58. 1955.
- Epstein, M. A. 1060  
Site of virus-like particles in Rous fowl sarcoma cells. Nature. 176:784-5. 10/22/55.
- Erdtman, G. 1061  
Some remarks on terms, diagnoses, classification, and methods in palynology. Svensk Botan. Tidskr. 48(2):471-84. 1954.
- Erickson, John O., Dorothy M. Armen & Raymond L. Libby 1062

- The persistence of antigen in the mouse.  
J. Immunol. 71(1):30-7. 7/53.
- Ertaud, André 1063  
Construction d'une cuve rhéographique son  
emploi dans le calcul des lentilles électro-  
statiques. Rev. opt. 29:171-80. 3/50.
- Essen, K. W. & A. Lembke 1064  
Über den Erreger der Hepatitis epidemica.  
Zentr. Bakteriell. Parasitenk. Abt. I Orig.  
159:387-94. 6/53.
- Estable, C., Magdalena Reissig & E. de  
Robertis 1065  
The microscopic and submicroscopic structure  
of the synapsis in the ventral ganglion of  
the acoustic nerve. (Abstract, Paper #56,  
Electron Microscope Society of America Meeting,  
Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys.  
24:1421. 11/53.
- Estable, C., Magdalena Reissig & E. de  
Robertis 1066  
Microscopic and submicroscopic structure  
of the synapsis in the ventral ganglion of  
the acoustic nerve. Exptl. Cell Research.  
6:255-62. 1954.
- Everall, J. & R. Reed 1067  
A preliminary electron microscope study of  
dermatitis herpetiformis and pemphigus vul-  
garis. Brit. J. Dermatol. 65:432-6. 12/53.
- Eyme, Jean & Lucien Capot 1068  
Sur la structure de l'antherozoïde de  
Sphagnum cymbifolium Ehrh. examiné au micro-  
scope électronique. Compt. rend. acad. sci.  
238:1336-8. 3/22/54.
- Fadeeva, V. S. & M. E. Yakovleva 1069  
Electron micrographic investigation of the  
surface of dull zirconium glazes. (in Russian)  
Voprosy Petrog. i. Mineral Akad. Nauk S.S.S.R.  
2:353-7. 1953.
- Fahn, R., Armin Weiss & U. Hofmann 1070  
Über die Thixotropie bei Tonen. Ber. deut.  
keram. Ges. 30(2):21-5. 1953.
- Farquhar, Marilyn G. & James F. Rinehart 1071  
The ultrastructure of anterior pituitary  
gland as revealed by electron microscopy.  
(Abstract, Paper #73, Electron Microscope Soc-  
iety of America Meeting, Pocono Manor, Pa.,  
11/5-7/53.) J. Appl. Phys. 24:1425. 11/53.
- Farquhar, Marilyn G. & J. F. Rinehart 1072  
Cytologic alterations in the anterior pit-  
uitary gland following thyroidectomy: An  
electron microscope study. Endocrinology.  
55(6):857-76. 12/54.
- Farquhar, M. G. & J. F. Rinehart 1073  
Electron microscopic studies of the anter-  
ior pituitary gland of castrate rats. Endo-  
crinology. 54:516-41. 5/54.
- Farquhar, M. G. & James F. Rinehart 1074  
The fine structure of the anterior pit-  
uitary gland as revealed by electron micro-  
scopy. J. Clin. Endocrinol. and Metabolism.  
14:786. 7/54.
- Farquhar, Marilyn G. & James F. Rinehart 1074a  
The fine vascular organization of the an-  
terior pituitary gland. (Abstract, Paper #H15,  
Electron Microscope Society of America Meeting,  
Highland Park, Ill., 10/14-6/54.) J. Appl.

- Phys. 25:1466. 1954.
- Farrant, J. L. 1075  
Wave-lengths suitable for X-ray microscopy  
of biological specimens. J. Appl. Phys. 21:  
63-4. 1/50.
- Farrant, J. L. 1076  
An electron microscopic study of ferritin.  
Biochim. et Biophys. Acta. 13:569-76. 1954.
- Farrant, J. L. & Frank Fenner 1077  
A comparison of the morphology of vaccinia  
and myxoma viruses. Australian J. Exptl.  
Biol. Med. Sci. 31:121-6. 1953.
- Farrant, J. L. & A. J. Hodge 1078  
An externally adjustable objective aperture  
for an electron microscope. J. Sci. Instr.  
27:77-8. 3/50.
- Farrant, J. L. & E. H. Mercer 1079  
Electron microscopical observations of fib-  
rous insulin. Biochim. et Biophys. Acta.  
8:355-9. 4/52.
- Farrant, J. L. & E. H. Mercer 1080  
Studies on the structure of muscle. II.  
Arthropod muscles. Exptl. Cell Research. 3  
(3):553-63. 8/52.
- Farrant, J. L., R. N. Robertson & M. J  
Wilkins 1081  
The mitochondrial membrane. Nature. 171  
:401. 2/28/53.
- Farrant, J. L. & G. E. Rogers 1081a  
The fine histology of wool and wool follicles.  
(Abstract, Paper #11, Electron Microscope Soc-  
iety of America Meeting, Highland Park, Ill.,  
10/14-6/54.) J. Appl. Phys. 25:1465. 1954.
- Farrant, J. L. & Phyllis M. Rountree 1082  
Electron microscopy of a staphylococcal  
bacteriophage. J. Gen. Microbiol. 9(2):288-92.  
10/53.
- Faure-Fremiet, E. & J. Breton-Gorius 1083  
Microscopie électronique des membranelles  
vibratiles de quelques Ciliés. Compt. rend.  
soc. biol. 149:872-3. 1955.
- Favard, Pierre 1084  
Mise en évidence d'une sécrétion acrosomique  
avant la fécondation chez les spermatozoïdes  
de Discoglossus pictus Otth. et de Rana tempor-  
aria L. Compt. rend. acad. sci. 240:2563-5.  
1955.
- Favard, Pierre 1085  
Spermatogenèse de Discoglossus pictus Otth.  
Étude cytologique. Maturation du spermatozoïde.  
Ann. sci. nat. Zool. 11(17):370-94. 1955.
- Favata, Benedict V. & Francis W. Bishop 1086  
Electron microscopy of human sarcoma cells  
cultured in vitro. Am. Med. Assoc. Arch. Pathol.  
57:317-28. 4/54.
- Fawcett, Don W. 1087  
Observations on the fine structure of hepatic  
cells. (Abstract, Paper #72, Electron Microscope  
Society of America Meeting, Pocono Manor, Pa.,  
11/5-7/53.) J. Appl. Phys. 24:1424. 11/53.
- Fawcett, Don W. 1088  
Cytological observations on liver with the  
electron microscope. Anat. Record. 118:422  
2/54.



- Fawcett, Don W. 1089  
The study of epithelial cilia and sperm flagella with the electron microscope. *Laryngoscope*. 64(7):557-67. 1954.
- Fawcett, Don W. 1090  
Observations on the cytology and electron microscopy of hepatic cells. *J. Natl. Cancer Inst.* 15(5):1475-91. 4/55. Suppl.
- Fawcett, Don W. & Keith R. Porter 1091  
A study of the fine structure of ciliated epithelial cells with the electron microscope. *Anat. Record*. 113(4):539. 1952.
- Fawcett, Don W. & Keith R. Porter 1092  
A comparative study of ciliated epithelium with the electron microscope. (Abstract, Paper #D24, 66th Ann. Session of Am. Assoc. Anatomists, Columbus, Ohio, 3/25-7/53.) *Anat. Record*. 115(2):425. 1953.
- Fawcett, Don W. & Keith R. Porter 1093  
A study of the fine structure of ciliated epithelia. *J. Morphol.* 94(2):221-82. 3/54.
- Fawcett, E. 1094  
The surface resistance of normal and superconducting tin at 36 kMc/s. *Proc. Roy. Soc. London*. 232A:519-37. 1955.
- Fehvre, H. L. & R. Klein 1095  
Étude au microscope électronique des cellules de la moelle osseuse. 1st Int. Cong. Electron Microsc., Paris, 9/50. *Proc.* :692-6. Paris, Ed. Rev. Optique, 1953.
- Feitknecht, W. 1096  
Über den Zusammenbruch der Oxydfilme auf Metalloberflächen in sauren Dämpfen und den Mechanismus der atmosphärischen Korrosion. *Chimia. Switz.* 6:3-13. 1952.
- Feitknecht, W. 1097  
Elektronenmikroskopie und Elektronenbeugung im Dienste der Korrosionsforschung. *Umschau*. 55(18):556-8. 1955.
- Feitknecht, W. & A. Kummer 1098  
Beitrag zur Kenntnis des Überganges ungeordneter in geordnete Phasen. *Z. anorg. u. allgem. Chem.* 282(1-6):41-6. 1955.
- Feitknecht, W. & W. Schütz 1099  
Contribution à l'étude chimique de la corrosion du cuivre en solution de chlorure de sodium. *Rev. mét.* 52(4):327-34. 1955.
- Feitknecht, W., H. Studer & H. Meyer 1100  
Über kolloides Nickelhydroxyd. I. Die Herstellung von Nickelhydroxydsolen verschiedener Teilchengröße. *Kolloid-Z.* 139(3):131-3. 1954.
- Feldman, Charles 1101  
Formation of thin films of BaTiO<sub>3</sub> by evaporation. *Rev. Sci. Instr.* 26:463-6. 5/55.
- Felix, K. 1102  
Zur Chemie des Zellkerns. *Experientia*. 8:312-7. 1952.
- Fellinger, K., H. Braunsteiner & F. Pakesch 1103  
Elektronenmikroskopische Beobachtungen zur Frage des Disséschen Raumes. *Wien. klin. Wochschr.* 65(36/7):738-40. 1953.
- Feltynowski, Antoni 1104  
An aluminum replica method for the study on the red cell surface, especially of influenza virus adsorption on intact chicken red cells. (in Polish) *Med. dośw. microb.* 4:435-8. 1953.
- Feltynowski, A., I. Glass & L. Grelewicz 1105  
Electron diffraction investigation of semi-conductive PbTe layers. *Bull. acad. polon. sci.* 3(11):597-9. 1955.
- Feltynowski, A., I. Glass, T. Piwowski & A. Torun 1106  
Microstructure of photoconductive lead sulphide layers. *Bull. acad. polon. sci.* 2(8):389-91. 1954.
- Feltynowski, Antoni, Ewa Sikorska & Stanislaus Krauze 1107  
The electron microscope examination of erythrocytes under the action of some amines. *Bull. acad. polon. sci.* 3(8):309-12. 1955, and (in Polish) *Roczniki Państwowego Zakładu Hig.* 4:323-8. 1955.
- Feltynowski, Antoni & Zofia Zych 1108  
Electron microscope studies on the adsorption of influenza virus on chicken red cells. (in Polish) *Med. dośw. microb.* 4:431-4. 1953.
- Feltynowski, Antoni & Zofia Zych 1109  
Electron microscope studies on the morphology of influenza virus. (in Polish) *Med. dośw. microb.* 4:423-30. 1953.
- Feng, I-Ming 1110  
Application of polystyrene particles in conjunction with shadow casting to the study of polished metallic surfaces. *J. Appl. Phys.* 22:820-4. 6/51.
- Feng, I-Ming 1111  
Metal transfer and wear. *J. Appl. Phys.* 23:1011-9. 9/52.
- Ferguson, W. W., A. Juenker & R. A. Ferguson 1112  
Characterization of latent 'phages from strains of *Salmonella typhi* typable and untypable with Vi 'phage. *Am. J. Hyg.* 62(3):306-26. 1955.
- Fernández-Morán, Humberto 1113  
Electron microscope observations on the structure of the myelinated nerve fiber sheath. *Exptl. Cell Research*. 1:143-9. 1950.
- Fernández-Morán, Humberto 1114  
Elektronenmikroskopische Untersuchung der Markscheide und des Achsenzylinders im internodalen Abschnitt der Nervenfasern. *Experientia*. 6:339-47. 9/50.
- Fernández-Morán, Humberto 1115  
Sheath and axon structures in the internode portion of vertebrate myelinated nerve fibres. An electron microscope study of rat and frog sciatic nerves. *Exptl. Cell Research*. 1:309-40. 4/50.
- Fernández-Morán, Humberto 1116  
Diffraction of electrons by structures resembling myelin lamellae. *Exptl. Cell Research*. 2:673-9. 12/51.
- Fernández-Morán, Humberto 1117  
Application of the ultrathin freezing-sectioning technique to the study of cell structures with the electron microscope. *Arkiv. Fysik.* 4:471-83. 1952.



- Fernández-Morán, Humberto 1118  
The submicroscopic organization of vertebrate nerve fibres. An electron microscope study of myelinated and unmyelinated nerve fibres. Exptl. Cell Research. 3:282-359. 5/52.
- Fernández-Morán, Humberto 1119  
The submicroscopic organization of vertebrate nerve fibres as revealed by electron microscopy. Doctoral diss. Univ. of Stockholm, 3/11/52. Uppsala, 1952. 14p.
- Fernández-Morán, H. 1120  
A diamond knife for ultrathin sectioning. Exptl. Cell Research. 5(1):255-6. 1953.
- Fernández-Morán, H. 1121  
Observations on the structure of sub-microscopic nerve fibres. Exptl. Cell Research. 4(2):480-1. 1953.
- Fernández-Morán, H. 1122  
Studies on the submicroscopic organization of the thalamus. An electron microscope study of the ultrastructure of the nerve cells and of the extracellular elements in the region of the medial thalamic nuclei of the mouse. (in English & Spanish) Latinoamer. Neurocir. Congr. 6:599-753, Montevideo, Imprenta "Rosgal", 1955.
- Fernández-Morán, H. & A. Orville Dahl 1123  
Electron microscopy of ultrathin frozen sections of pollen grains. Science. 116:465-7. 10/31/52.
- Ferrandis, Vicente Aleixandre & Julia M. Gonzales Pena 1124  
Identificación en el microscopio electrónico de algunas arcillas y caolines españoles. Anales edafol. y fisol. vegetal Madrid. 13 (9-10):631-2. 1954.
- Ferrerri, G. & Y. Casorati 1125  
First remarks on the appearance of human and animal perilymph and endolymph observed with the electronic microscope. Acta Otolaryngol. 44(5/6):471-86. 1954.
- Ferris, Virginia R. 1126  
A note on the flagellation of *Phytophthora infestans* (Mont.) deBary. Science. 120:71-2. 7/9/54.
- Fert, Charles 1127  
Optique-électronique-appareil de démonstration pour l'optique électronique. Compt. rend. acad. sci. 232:2085-7. 6/4/51.
- Fert, Charles 1128  
Expériences d'optique électronique. J. phys. rad. 13:64A-70A. 2/52.
- Fert, Ch. 1129  
Quelques aspects de l'optique électronique. Bull. mens. soc. Astr. Pop. 43(334):61-6. 3/52.
- Fert, Ch. 1130  
L'optique électronique. Bull. union physiciens. 47(409):249-53. 3-4/53.
- Fert, Ch. 1131  
Microscopie électronique par réflexion. Rapport Europées Congrès. Toeg. Em. Gent, 4/7-10/54. :303-17.
- Fert, Charles 1132  
Les techniques d'observation et d'analyse

- en optique électronique. Rapport Europées Congrès. Toeg. Em. Gent, 4/7-10/54. :25-36.
- Fert, Charles & Roger Dargent 1133  
Procédé d'empreinte à grand pouvoir de résolution. Compt. rend. acad. sci. 235:1623-5. 12/22/52.
- Fert, Ch. & R. Dargent 1134  
Les pellicules d'alumine en microscopie électronique procédé d'empreinte à grand pouvoir de résolution. Congrès des Sociétés Savantes, 78e, Compt. rend. Toulouse, 4/53. :577-86.
- Fert, Charles & R. Dargent 1135  
Méthode simple d'empreinte de silice. Intérêt de la pulvérisation cathodique comme méthode d'attaque des surfaces à examiner. Compt. rend. acad. sci. 238:662-4. 2/8/54.
- Fert, Charles & Gaston Dupouy 1136  
Diffraction des électrons: bombardement ionique d'un objet pendant son observation en diffraction et en microscopie électronique par réflexion. Compt. rend. acad. sci. 238:333-5. 1/18/54.
- Fert, Charles & Pierre Gautier 1137  
Méthode d'induction pour l'étude de la topographie du champ sur l'axe d'une lentille électronique magnétique de grande puissance. Compt. rend. acad. sci. 233:148-50. 7/9/51.
- Fert, Charles & Bernard Marty 1138  
Emploi d'une lentille cylindrique pour réduire la distorsion de l'image en microscopie électronique par réflexion. Compt. rend. acad. sci. 241:1454-6. 11/21/55.
- Fert, Charles, Bernard Marty & Robert Saporte 1139  
Microscopie électronique par réflexion: éclairage rasant, observation sous un grand angle. Compt. rend. acad. sci. 240:1975-8. 5/16/55.
- Fert, Charles, & Robert Saporte 1140  
Microscopie électronique par réflexion. Compt. rend. acad. sci. 235:1490-2. 12/10/52.
- Few, A. V. 1141  
Electron microscopy of disrupted bacteria treated with polymyxin E. J. Gen. Microbiol. 10:304-8. 1954.
- Fieldes, M. 1142  
Clay mineralogy of New Zealand soils. II. Allophane and related mineral colloids. New Zealand J. Sci. Technol. 37B(3):336-50. 1955.
- Fieldes, M. & K. I. Williamson 1143  
Clay mineralogy of New Zealand soils. I. Electron micrography. New Zealand J. Sci. Technol. 37B(3):314-35. 1955.
- Finch, G. I. 1144  
A short general survey of the study of surfaces, films and particles by electron diffraction and electron microscopy. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :13-8. Paris, Ed. Rev. Optique, 1953.
- Finean, J. B. 1145  
X-ray diffraction and electron microscope studies on the brain lipide strandin. Arch. Biochem. and Biophys. 52(1):38-46. 1954.
- Finean, J. B., F. S. Sjöstrand & E. Steinmann 1146

Submicroscopic organisation of some layered lipoprotein structures. (Nerve myelin, retinal rods, and chloroplasts.) Exptl. Cell Research. 5(2):557-9. 1953.

Finley, Harold E. 1147  
Electron microscopy of thin-sectioned *Spirostomum*. (Abstract, Paper #38, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:114. 1951.

Finley, Harold E. 1148  
Electron microscopy of thin-sectioned *Spirostomum*. Science. 113:362-3. 3/30/51.

Finter, Norman B., Oscar C. Liu, M. Lieberman & Werner Henle 1149  
Studies on host-virus interactions in the chick embryo-influenza virus system. VIII. An experimental analysis of various deembryonation technics. J. Exptl. Med. 100(1):33-52. 1954.

Fischbein, Irwin W. 1150  
Electron microscopy of wet biological tissues by replica techniques. J. Appl. Phys. 21:1199-204. 12/50.

Fischer, E. W. & H. Richter 1151  
Struktur-Änderungen von Ge-Aufdampfschichten im Elektronenmikroskop. Ann. Physik. 16(5/8):193-209. 1955.

Fischer, H., O. Hug & W. Lippert 1152  
Elektronenmikroskopische Studien an Forelenspermatozoen und ihren Zellkernen. Chromosoma. 5:69-80. 1952.

Fischer, Robert B. 1153  
Precipitation by barium sulphate. Investigation by electron microscopy. Anal. Chem. 23:1667-71. 11/51.

Fischer, R. B. 1154  
Applied electron microscopy. Bloomington, Indiana University Press, 1953. 231p.

Fischer, Robert B. 1155  
Decompositions of inorganic specimens during observation in the electron microscope. (Abstract, Paper #23, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1416. 11/53.

Fischer, R. B. 1156  
Decompositions of inorganic specimens during observation in the electron microscope. J. Appl. Phys. 25(7):894-6. 7/54.

Fischer, Robert B. & Joseph P. Ellinger 1157  
A replica technique in the study of chemical precipitation processes. (Abstract, Paper #12, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:113. 1953.

Fischer, Robert B. & Joseph P. Ellinger 1158  
A replica technique in the study of chemical precipitation processes. J. Appl. Phys. 24:1051-3. 8/53.

Fischer, Robert B. & Charles E. Ring 1158a  
Some studies in nickel plating. (Abstract, Paper #D2, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1458. 1954.

Fisher, R. M. 1159  
Direct printing of shadowed electron micrographs. J. Appl. Phys. 23:153-4. 1/52.

Fisher, R. M. 1160  
Sputtering etching of metals. (Abstract, Paper #15, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:158. 1/52.

Fisher, R. M. 1161  
Electron microstructure of steel by "extraction replica" technique. Symposium on Techniques for Electron Metallography. Special Technical Publication #155. Am. Soc. Testing Materials. :49-64. 1953.

Fisher, R. M. 1162  
"Extraction replica" technique for electron metallography. (Abstract, Paper #13, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:113. 1953.

Fisher, R. M. 1162a  
Recent applications of the "Extraction replica" technique. (Abstract, Paper #D3, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1459. 1954.

Fisher, R. M., E. J. Dulis & K. G. Carroll 1163  
Identification of the precipitate accompanying 885°F embrittlement in chromium steels. J. Metals. 5:690-5. 5/53.

Fisher, R. M. & H. E. Knechtel 1164  
Modification of the RCA model B for X-ray microanalysis. (Abstract, Paper #26, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26:1395. 1955.

Fischer, Wilhelm Anton & Walter Koch 1165  
Das anormale Zementationsverhalten von Stahl. Arch. Eisenhüttenw. 21(9/10):345-54. 1950.

Fiset, P. & Heather B. Donald 1166  
A method for influenza antibody absorption. Brit. J. Exptl. Pathol. 34(6):616-20. 12/53.

Fister, George M. & George W. Cochran 1167  
A study of human urine with the electron microscope. J. Urol. 74(6):828-39. 12/55.

Fitz-James, P. C. 1168  
The phosphorus fractions of *Bacillus cereus* and *Bacillus megaterium*. I. A comparison of spores and vegetative cells. Can. J. Microbiol. 1:502-19. 1955.

Fitz-James, P. C., C. F. Robinow & G. H. Bergold 1169  
Acid hydrolysis of the spores of *B. cereus*; a correlation of chemical and cytological findings. Biochim. et Biophys. Acta. 14:346-55. 1954.

Flaig, W. 1170  
Tone unter dem elektronenmikroskop. Landbauforsch. Völknerode. 3:18-20. 1/53.

Flaig, W. & H. Beutelspacher 1171  
Elektronenmikroskopische Untersuchungen in der Bodenkunde. Optik. 7:237-40. 4-5/50.

Flaig, W. & H. Beutelspacher 1172  
Physikalische chemie der Huminsäueren.



Landbouwk. Tijdschr. 66(5/6):306-36. 1954.

Flaig, W., E. Kuster & H. Beutelspacher 1173  
Elektronenmikroskopische Untersuchungen an  
Sporen verschiedener Streptomyceten. Zentr.  
Bakteriol. Parasitenk. Abt. II. 108:376-82.  
1955.

Fleming, Gertrude M. 1174  
Stereoscopic electron microscope. U. S.  
Patent No. 2,617,041. 11/4/52. 5p.

Flewett, T. H. 1175  
High resolution electron micrographs of  
thin tissue sections. Nature. 173:309. 2/13/54.

Flewett, T. H. & C. E. Challice 1176  
The cutting of sections for electron  
microscopy, using ester wax as an embedding  
medium. J. Pathol. Bacteriol. 63:748-51.  
10/51.

Flewett, T. H. & C. E. Challice 1177  
The intracellular growth of fowl-plague  
virus. A phase-contrast and electron micro-  
scopical study of infected tissue cultures.  
J. Gen. Microbiol. 5:279-86. 5/51.

Fonio, Anton 1178  
Über die Messung der Retraktionsvalenz  
des Fibringerinnsels. Schweiz. med. Wochschr.  
84(13):372. 1954.

Fonio, Anton 1179  
Über die Retraktionsvalenz des Fibringer-  
innsels und über eine Methode zu ihrer Bestim-  
mung. Acta Haematol. 11(4):251-8. 1954.

Ford, F. P. & A. Y. Mottlau 1180  
Studies in the dispersion of SRF carbon  
black in butyl rubber. Rubber Age, N. Y.  
70:457-63. 1/52.

Forestier, Hubert, Charles Haasser &  
Micheline Uhl 1181  
L'élévation de température des échantillons  
métalliques dans le microscope électronique.  
Compt. rend. acad. sci. 130:2080-2. 6/12/50.

Forestier, H., Ch. Haasser, M. Uhl &  
J. Boissier 1182  
L'élévation de température des échantillons  
métalliques dans le microscope électronique.  
1st Int. Cong. Electron Micros., Paris, 9/50.  
Proc. :398-402. Paris, Ed. Rev. Optique, 1953.

Fourestier, Max 1183  
La biologie du bacille de Koch étudiée avec  
le microscope électronique. Presse méd. 67:  
1373-4. 10/21/53.

Fox, J. deWitt 1184  
Virus-like bodies in human cancer. An elec-  
tron microscope study of the filterable compo-  
nents of normal and neoplastic tissue. Cancer.  
4:168-76. 1/51.

Fraenkel-Conrat, H. & Robley C. Williams 1185  
Reconstitution of active tobacco mosaic virus  
from its inactive protein and nucleic acid  
components. Proc. Natl. Acad. Sci. U. S.  
41(10):690-8. 1955.

Frajola, Walter J., Marie H. Greider &  
Bertha A. Bouroncle 1186  
Nature of virus-like structures in red cells  
of patients with Hodgkin's disease. Proc.  
Soc. Exptl. Biol. Med. 88:507-9. 1955.

Frajola, Walter J., Marie Greider & Jacob G.  
Rabatin 1187  
Effects of hydrochloric acid and desoxy-  
ribonuclease on thymonucleoprotein. (Abstract,  
Paper #45, Electron Microscope Society of Amer-  
ica Meeting, Pocono Manor, Pa., 11/5-7/53. J.  
Appl. Phys. 24:1420. 11/53.

Frajola, Walter J., Marie H. Greider & Jacob  
G. Rabatin 1188  
Electron microscopy of calf thymus nucleo-  
protein. I. Effect of hydrochloric acid and  
desoxyribonuclease. Biochim. et Biophys. Acta.  
14:18-25. 1954.

Franchi, C. M. & E. De Robertis 1189  
Electron microscope observations on elastic  
fibers. Proc. Soc. Exptl. Biol. Med. 76:515-8.  
3/51.

Francois, J., M. Rabaey & G. Vandermeerssche  
L'ultrastructure des tissus oculaires 1190  
au microscope électronique. I. Étude des  
grains pigmentaires de l'épithélium rétinien.  
II. Étude de la cornée et de la sclérotique,  
and III. Étude du cristallin. Ophthalmologica.  
126(6):347-54. 11/53. Ophthalmologica. 127(2)  
:74-85. 2/54, and Ophthalmologica. 129(1):36-43.  
1/55.

Frank, R. 1191  
Données sur la structure de l'émail humain  
fournies par le microscope électronique. Compt.  
rend. soc. biol. 114:1417-9. 7/8/50.

Frank, R. 1192  
Contributions apportées par le microscope  
électronique à l'étude de la carie dentaire.  
Rev. belge Stomat. 52(2):228-46. 1955.

Frank, Robert, Paul Frank, Marc Klein &  
René Fontaine 1193  
L'os compact humain normal au microscope  
électronique. Arch. Anat. Microscop. 44(2)  
:191-206. 1955, and Compt. rend. soc. biol.  
149(9/10):1011-4. 5/55.

Frank, R. & A. Meyer 1194  
Exploration au microscope électronique des  
substances fondamentales de la dent normale et  
pathologique. Compt. rend. soc. biol. 148:1631-  
4. 1954.

Frank, R. & A. Meyer 1195  
Observations préliminaires sur la carie  
dentaire au microscope électronique. Rev.  
mens. suisse odont. 65:164-74. 2/55.

Franklin, A. D., R. Campbell & J. Weinman 1196  
Measurement of particle size of fine ferro-  
magnetic powders. J. Appl. Phys. 24:1040-5.  
8/53.

Franklin, A. D., R. B. Campbell & J. A.  
Weinman 1197  
Particle size studies of ultrafine ferro-  
magnetic powders. (Abstract, Paper #18, Elec-  
tron Microscope Society of America Meeting,  
Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys.  
24:114. 1953.

Franklin, R. M., M. Friedman & R. B. Setlow 1198  
The ultraviolet action spectrum of a Bacillus  
megatherium bacteriophage. Arch. Biochem.  
Biophys. 44(2):259-64. 6/53.

Fraser, David A. 1199  
Absolute method of sampling and measurement



of solid air-borne particulates. Arch. Ind. Hyg. and Occupational Med. 8:412-9. 1953.

Fraser, Dean & Robley C. Williams 1200  
Details of frozen-dried T3 and T7 bacteriophages as shown by electron microscopy. J. Bacteriol. 65:167-70. 2/53.

Fraser, Dean & Robley C. Williams 1201  
Electron microscopy of the nucleic acid released from individual bacteriophage particles. Proc. Natl. Acad. Sci. U. S. 39 (8):750-3. 8/53.

Fraser, K. B. 1202  
Apparent reciprocal exchange of characters between the Mel and NWS strains of influenza A virus in the brain of one-day old mice. Nature. 176:212. 7/30/55.

Fraser, R.D.B. & G. E. Rogers 1203  
The bromine Allwörden reaction. Biochim. et Biophys. Acta. 16:307-16. 3/55.

Freeman, James A. 1204  
Electron micrographs of endoplasmic reticulum and other intracellular components. Anat. Record. 121(2):432. 1955.

Frei, E. H. & F. L. Hirschfeld 1205  
An exposure meter for the electron microscope. Rev. Sci. Instr. 22:231-2. 4/51.

Freund, Michael 1206  
Über Alterungserscheinungen von Motoren-schmierölen. Erdoel u. Kohle. 8:712-8. 10/55.

Frey, Michel 1207  
Microscope électronique. Technique de répartition de cristaux sur le porte-objet par decantation dans l'air. Bull. soc. chim. 5(17):1064. 1950.

Frey-Wyssling, A. 1208  
Elektronenmikroskopie. Vierteljahrsschr. Naturforsch. Ges. Zürich. 95(4):6-46. 1951.

Frey-Wyssling, A. 1209  
Elektronenmikroskopie gelöster und gefällter Cellulose. Makromol. Chem. 7(2):163-7. 1951.

Frey-Wyssling, A. 1210  
Feinbau der Membran gequollener Stärkekörner. Experientia. 8:101-4. 3/52.

Frey-Wyssling, A. 1211  
Submicroscopic morphology of protoplasm. 2nd English edition. New York, Elsevier, 1953.

Frey-Wyssling, A. 1212  
Über die submikroskopische Struktur der zellulösen Elementarfibrillen. Experientia. 9(5):181. 1953.

Frey-Wyssling, A. 1213  
The fine structure of cellulose microfibrils. Science. 119:80-2. 1/15/54.

Frey-Wyssling, A. 1214  
Plant cytology and the electron microscope. Endeavour. 14(53):34-9. 1955.

Frey-Wyssling, A. 1215  
Die submikroskopische Struktur des Cytoplasmas. Vienna, Springer-Verlag, 1955. 244p.

Frey-Wyssling, Albert & Kurt Mühlethaler 1216  
Zellteilung im Elektronenmikroskop. Mikroskopie. 6:28-31. 1950.

Frey-Wyssling, A., K. Mühlethaler & H. H. Bosshard 1217  
Das Elektronenmikroskop im Dienste der Bestimmung von Pinusarten. Holz Roh u. Werkstoff. 13:245-9. 1955.

Frey-Wyssling, A. & H. Stecher 1218  
Das Flächenwachstum der pflanzlichen Zellwände. Experientia. 7:420-3. 11/51.

Frey-Wyssling, A. & E. Steinmann 1219  
Ergebnisse der Feinbau-Analyse der Chloroplasten. Vierteljahrsschr. naturforsch. Ges. Zürich. 98:20-9. 1953.

Friedburg, Helmut 1220  
Optische Abbildung mit neutralen Atomen. Z. Physik. 130:493-512. 1951.

Friedlaender, Marlene H. G. 1221  
Observations on the structure of human spermatozoa: an electron microscope inquiry. Proc. Roy. Soc. London. 140B:60-9. 1952.

Friedlaender, Marlene 1221a  
The morphological structure of Anopheles A virus. (Abstract, Paper #F1, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1461. 1954.

Friedlaender, Marlene 1222  
Studies with electron microscope of virus-host relationships in Ehrlich ascites. I. The identification and structure of anopheles A virus. J. Exptl. Med. 102:361-70. 10/55.

Friedlaender, M. H. G. & M. J. Fraser 1223  
Cytochemical reactions of ram spermatozoa. Exptl. Cell Research. 3(2):462-74. 1952.

Friedlaender, Marlene, Dan H. Moore & Hilary Koprowski 1224  
Some effect of oncolytic and other viruses on Ehrlich ascites tumor cells. (Abstract, Paper #29, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26:1396. 1955.

Friedlaender, M., D. H. Moore & H. Koprowski 1225  
Studies with electron microscope of virus-host relationships in Ehrlich ascites. II. The localization and possible development of anopheles A virus within the endoplasmic reticulum of the host cell. J. Exptl. Med. 102:371-8. 10/55.

Friedlaender, Marlene, Dan H. Moore, Robert Love, Ray A. Brown & Hilary Koprowski 1226  
Development of anopheles A virus in the endoplasmic reticulum of Ehrlich ascites tumor cells. Nature. 175:812-3. 5/7/55.

Friedlaender, M.H.G. & J. T. Randall 1227  
An electron microscope study of ram spermatozoa. Conf. of Electron Micros., Delft, 7/49. Proc. The Hague, Nijhoff, 1950. :127-30.

Friedman, Murray & Philip B. Cowles 1228  
The bacteriophages of Bacillus megaterium. I. Serological, physical, and biological properties. J. Bacteriol. 66(4):379-85. 10/53.

Frieser, H., I. Johann & E. Klein 1229  
Dünnschnitte durch Körner photographischer Emulsionen. Naturwissenschaften. 14(20):475-6. 1954.

Froula, Henry 1230  
Rapid non-photographic measurement of specimen

dimensions. (Abstract, Paper #13, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:111. 1951.

Froula, H. 1231  
Direct measurement of images in the electron microscope. Rev. Sci. Instr. 24:304-6. 4/53.

Froula, H. & E. Bowler 1232  
A device for the automatic recording of magnification settings. (Abstract, Paper #24, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:114. 1953.

Froula, H. & E. S. C. Bowler 1232a  
On the effects of hysteresis on magnification. (Abstract, Paper #A10, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1454. 1954.

Froula, H., A. F. Bush & E. S. C. Bowler 1233  
On the electron microscopy of air-borne particles. (Abstract, Paper #9, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26:1392. 1955.

Froula, H., A. Buch & R. Byloff 1234  
Study of particulate matter in municipal incinerator stack discharges. (Abstract, Paper #23, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:159. 1/52.

Fry, Wayne L. 1235  
A study of the Carboniferous lycopod, *Paurodendron* gen. nov. Am. J. Botany. 41(5): 415-28. 1954.

Fujiwara, Akio & Matsubei, Wakô 1236  
A newly devised method for soil colloidal fractionation. The first report - examination of the method in which thermal diffusion is applied. Science Repts. Res. Inst. Tohoku Univ. D3:51-65. 3/52.

Fujiwara, Akio & Matsubei Wakô 1237  
Results of electron microscopical examinations of clay minerals in Japanese soils. Science Repts. Res. Inst. Tohoku Univ. D3 :67-101. 3/52.

Fujiwara, Tadashi & Eiji Chiama 1238  
Studies on the fibrils, reprecipitated and reconstituted from dissolved collagen, with electron microscope. J. Electronmicroscopy. 1(1):57-9. 1953.

Fukai, K., Y. Nishi & O. Shiota 1239  
Morphological changes in particles of a virus (HVM. Z strain) in media having various salt concentrations. J. Electronmicroscopy. 3(1):25-9. 1955, and Med. J. Osaka Univ. 6(1):29-38. 1955.

Fukami, Akira 1240  
Collodion negative replica process. Resolution of replicas and application for fine particles. J. Electronmicroscopy. 2(1):20-5. 1954.

Fukami, A. 1241  
Experiment concerning replica preparation methods (II). On all plastic two-step replica method. J. Electronmicroscopy. 3:16-20. 1954.

Fukami, A. 1242  
Experiment concerning replica preparation methods (III). On a new rapid and reliable positive replica process (filmy replica system). J. Electronmicroscopy. 4:36-40. 1955.

Fukami, Akira 1243  
Perfectionnements aux techniques d'empreinte pour microscopie électronique. Métaux (Corrosion-Ind.) 357:4-11. 5/55.

Fukami, Akira & Taichiro Akiyami 1244  
On the improved replica methods for electron microscopy. I. A new rapid and reliable negative replica process. II. The self-curing methylmethacrylate positive replica method. J. Electronmicroscopy. 1(1):28-32. 1953.

Fukushi, Teikichi & Eishiro Shikata 1245  
Electron microscope studies on plant viruses. I. J. Fac. Agr., Hokkaido Univ. 50:74-94. 8/55.

Fullam, Ernest F. 1246  
"Athene" specimen screens. (Abstract, Paper #23, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:114. 1953.

Fullam, Ernest F. 1247  
Replica washing methods. Symposium on Techniques for Electron Metallography. Special Technical Publication #155. Am. Soc. Testing Materials. :101-6. 1953.

Fullam, Ernest F. & Ruth H. Petcher 1248  
A technique for the comparison of identical surface areas in the light and electron microscopes. (Abstract, Paper #5, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:66. 1950.

Fulton, Robert W. 1249  
Bacteriophages attacking *Pseudomonas tabaci* and *P. angulatum*. Phytopathology. 40:936-49. 10/50.

Furuta, W. J. & D. E. Philpott 1250  
Electron microscopy of nerve fibers in the brain and cervical sympathetic ganglia of rats. (Abstract). Anat. Record. 112:446. 2/52.

Gaarder, K. R., J. Markali & E. Ramsfjell 1251  
Further observations on the coccilithophorid *Calciopappus caudatus*. Skrifter Norske Videnskaps-Akad. Oslo. I. Mat. Naturv. K1. 1954 (1). 9p.

Gabor, D. 1252  
Problems and prospects of electron diffraction microscopy. Conf. of Electron Micros., Delft, 7/49. Proc. The Hague, Nijhoff, 1950. :55-9.

Gabor, D. 1253  
Generalized schemes of diffraction microscopy. Research. 4:107-12. 1951, and 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :129-37. Paris, Ed. Rev. Optique, 1953.

Gabor, D. 1254  
Microscopy by reconstructed wave fronts: II. Proc. Phys. Soc. London. 64B:449-69. 1951.

Gabor, D. & G. W. Jull 1255  
Experimental evidence for the collective nature of the characteristic electron-energy losses in solids. Nature. 175:718. 4/23/55.



- Gall, J. G. 1256  
Observations on the nuclear membrane with the electron microscope. Exptl. Cell Research. 7:197-200. 1954.
- Gallera, J. & C. A. Baud 1257  
Étude ultrastructurale de l'ectoblaste chez l'embryon d'Urodèle normal ou traité par l'urée. J. Embryol. Exptl. Morph. 2(2):106-13. 1954.
- Gard, S., L. Heller & H. Malmros 1258  
Electron microscopy of euglobulin from a case of hyperglobulinemia. Proc. Soc. Exptl. Biol. Med. 79:328-30. 1952.
- Garrod, R. I. 1259  
A low-impedance high-vacuum valve. J. Sci. Instr. 27:205. 7/50.
- Garrod, R. I. & R. A. Coyle 1260  
A multiple high-vacuum valve unit. J. Sci. Instr. 27:228-9. 8/50.
- Garrod, R. I., J. W. Suiter & W. A. Wood 1261  
An electron microscope study of the effect of temperature and strain-rate on the mechanism of deformation of aluminium. Phil. Mag. 7(43):677-85. 1952.
- Garton, Geoffrey & John Turkevich 1262  
Altération de structure de la surface d'un catalyseur et activité catalytique d'un catalyseur de platine. J. chim. phys. 51(9):516-9. 1954.
- Gastuche, M. C., J. Delvigne & J. J. Fripiat 1263  
Localisation des sites d'échange de cations dans la kaolinite. Rapport Europées Congres Toeg. Em. Gent, 4/7-10/54. :341-5.
- Gatenby, J. B. 1264  
Light and electron microscopy of the Golgi apparatus. Dalton-Felix granules and cortical substance. La Cellule. 57(2):243-68. 1955.
- Gatenby, J. B., A. J. Dalton & M. D. Felix 1265  
The contractile vacuole of Parazoa and Protozoa, and the Golgi apparatus. Nature. 176:301-2. 8/13/55.
- Gauthé, Bernard 1266  
Réalisation d'un spectrographe électrostatique à partir d'un microscope électronique. Compt. rend. acad. sci. 239:399-402. 8/2/54.
- Gautier, Alain 1267  
Présentation d'un prototype d'ultramicrotome "Stiassnie". Bull. microscop. appl. 5(1/2):20-1. 1955.
- Gautier, A. 1268  
Prototype eines neuen Ultramikrotoms. (Stiassnie). Physik. Verhandl. 6(2):16. 1955.
- Gautier, A. & W. Bernhard 1269  
Étude au microscope électronique du rein de rat normal. Les tubes contournés et la bordure en brosse. Compt. rend. soc. biol. 144:1479. 11/50.
- Gautier, A., W. Bernhard & Ch. Oberling 1270  
Sur l'existence d'un appareil lacunaire péricapillaire du glomérule de Malpighi, révélée par le microscope électronique. Compt. rend. soc. biol. 144:1605. 12/50.

- Gautier, A. & V. Diomede-Fresa 1271  
Étude au microscope électronique de l'ergas-toplasme des glandes salivaires du rat. Mikroskopie. 8:23-31. 1953.
- Gautier, Pierre 1272  
Mesure de la dérivée première et de la dérivée seconde de l'induction sur l'axe révolution d'une lentille magnétique puissante. Compt. rend. acad. sci. 235:361-4. 8/4/52.
- Gautier, Pierre 1273  
Calcul numérique des trajectoires dans les systèmes centres de l'optique électronique. J. phys. radium. 14:524-32. 10/53.
- Gautier, Pierre 1274  
Mesure de l'induction et de ses dérivées dans le plan de symétrie des lentilles magnétiques cylindriques. Compt. rend. acad. sci. 240:2294-6. 1955.
- Gauzit, Maurice 1275  
Sur la microscopie ionique par transmission. Compt. rend. acad. sci. 233:1586-8. 12/19/51.
- Gauzit, Maurice 1276  
Microscope ionique par transmission. Bull. microscop. appl. 3(5):57-69. 5-6/53.
- Gauzit, M. 1277  
Le microscope électronique. Possibilités d'application. Tech. moderne. 46(8):289-97. 1954.
- Gauzit, M. & A. Septier 1278  
Le microscopie électronique à émission en métallographie. Bull. microscop. appl. 1(5):109-18. 5/51.
- Gauzit, M. & A. Septier 1279  
Microscopie à émission. Rapport Europées Congrès Toeg. Em. Gent, 4/7-10/54. :53-62.
- Gay, Helen 1279a  
Serial sections for electron microscopy. (Abstract, Paper #A20, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1455. 1954.
- Gay, Helen 1280  
Electron microscope studies on the nucleus and chromosomes of salivary-gland cells of Diptera. Dissertation Abstr. 15:899-900. 1955.
- Gay, Helen 1281  
Nucleo-cytoplasmic relations in salivary gland cells of Drosophila. Proc. Nat. Acad. Sci. U. S. 41:370-5. 1955.
- Gay, Helen 1282  
Serial sectioning in analysis of fine cell structure. (Abstract, Paper #20, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26:1394. 1955.
- Gay, Helen 1283  
Serial sections of smears for electron microscopy. Stain Technol. 30(5):239-42. 9/55.
- Gay, Helen & Thomas F. Anderson 1284  
Serial sections for electron microscopy. Science. 120:1071-3. 12/24/54.
- Gaylord, William H. 1285  
Intracellular forms of meningopneumonitis virus. J. Exptl. Med. 100(6):575-80. 1/12/54.



Gaylord, William H. 1285a  
Virus-like particles as seen in sections of Rous sarcoma tumors. (Abstract, Paper #F2, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1461. 1954.

Gaylord, William H. 1286  
Virus-like particles associated with the Rous sarcoma as seen in sections of the tumor. Cancer Research. 15(2):80-3. 2/55.

Gaylord, W. H., Jr., A. J. Girardi, H. Bunting & J. L. Melnick 1287  
Morphology of intracellular meningopneumonitis virus. (Abstract, Paper #32, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1418. 11/53.

Gaylord, William H. & Joseph L. Melnick 1288  
Developmental forms of vaccinia virus. Science. 117:10-3. 1/2/53.

Gaylord, William H. Jr. & Joseph L. Melnick 1289  
Intracellular forms of pox viruses as shown by the electron microscope (vaccinia, ectromelia, molluscum contagiosum). J. Exptl. Med. 98(2):157-72. 8/1/53.

Geiger, W. 1290  
Elektronenoptische Untersuchungen am Salmonidensperma. Rev. suisse zool. 62(23):325-34. 1955.

Gelotte, Bertil 1291  
Myosin from cardiac muscle. Biochim. et Biophys. Acta. 7:378-86. 9/51.

George, D. E., R.G.E. Hutter & M. Cooperstein 1292  
The rotating beam method for investigating electron lenses. Sylvania Technologist. 4(2):41-3. 4/51.

Geren, Betty Ben 1293  
The formation from the Schwann cell surface of myelin in the peripheral nerves of chick embryos. Exptl. Cell Research. 7:558-62. 1954.

Geren, Betty B. & David McCulloch 1294  
Development and use of the Minot rotary microtome for thin sectioning. Exptl. Cell Research. 2:97-102. 1951.

Geren, Betty Ben & Francis O. Schmitt 1295  
The structure of the nerve sheath in relation to lipid and lipid-protein layers. (Abstract, Paper #55, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1421. 11/53.

Geren, Betty Ben and Francis O. Schmitt 1296  
The structure of the Schwann cell and its relation to the axon in certain invertebrate nerve fibers. Proc. Natl. Acad. Sci. U. S. 40(9):863-70. 9/54.

Germer, L. H. & W. S. Boyle 1297  
Anode and cathode arcs. Nature. 176:1019. 11/26/55.

Gernez-Rieux, Ch., A. Tacquet, C. Voisin & J. Leblois 1298  
Etude au microscope électronique des modifications morphologiques du B.C.G. cultivé en présence de phosphore radio-actif.

Ann. inst. Pasteur. 6:53-61. 1953-4.

Gerould, Charles H. 1299  
Comments on the use of latex spheres as size standards in electron microscope. J. Appl. Phys. 21:183-4. 2/50.

Gerould, Charles H. 1300  
Electron metallography of cast irons. (Abstract, Paper #20, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:68-9. 1950.

Gerould, Charles H. 1301  
Use of polystyrene latex 580 G, Lot 3584 in electron microscopy. (Abstract, Paper #42, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:71. 1950.

Gettner, Mark E. 1302  
An objective aperture alignment device. (Abstract, Paper #4, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:157. 1/52.

Gettner, Mark & James Hillier 1303  
Serial sections for electron micrography. (Abstract, Paper #14, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:68. 1950.

Gettner, Mark E. & Leonard Ornstein 1304  
New ultramicrotome for thin-sections of tissue. (Abstract, Paper #11, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:113. 1953.

Gey, George O. & Frederick B. Bang 1305  
A study of the effect of the virus of eastern equine encephalomyelitis on normal and tumor cells in tissue culture and by electron microscopy. Cancer Research. 10:219. 4/50.

Gey, G. O. & F. B. Bang 1306  
Cell structure: a comparison of phase and electron microscopy. Cancer Research. 11:250-1. 4/51.

Gey, George O., Frederick G. Bang & Margaret K. Gey 1307  
An evaluation of some comparative studies on cultured strains of normal and malignant cells of animals and man. Texas Repts. Biol. and Med. 12(4):805-27. 1954.

Gey, George O., Frederik B. Bang & Margaret K. Gey 1308  
Responses of a variety of normal and malignant cells to continuous cultivation, and some practical applications of these responses to problems in the biology of disease. Ann. N.Y. Acad. Sci. 58(7):976-99. 11/17/54.

Gey, George O., Peter Shapras & Emil Borysko 1309  
Activities and responses of living cells and their components as recorded by cinephase microscopy and electron microscopy. Ann. N. Y. Acad. Sci. 58(7):1089-1109. 11/17/54.

Gharpurey, M. K. & T.N.R. Rao 1310  
An electron microscopic study of the external morphology of some lactic acid bacteria. Indian J. Dairy Sci. 7(4):194-7. 1954.

Gianola, U. F. 1311  
The correction of the spherical aberration of electron lenses using a correcting foil element. Proc. Phys. Soc. London. 63B:1037-9. 1950.

Gianola, U. F. 1312  
Reduction of the spherical aberration of magnetic electron lenses. Proc. Phys. Soc. London. 63B:703-8. 1950.

Gianola, U. F. 1313  
Investigation of magnetic lenses having the axial field  $H(O,z) = \tau/z^n$ . Proc. Phys. Soc. London. 65B:597-603. 8/52.

Gibb, J. G., P. D. Ritchie & J. W. Sharpe. 1314  
Physicochemical studies on dusts. VI. Electronoptical examination of finely ground silica. J. Appl. Chem. London. 3:213-8. 1953.

Giesecking, Rotraud 1315  
Elektronenmikroskopische Beobachtungen an Mitochondrien aus Leberzellen. Mikroskopie. 9(5/6):186-91. 1954.

Giesecking, Rotraud & Norbert Schümmelfeder 1316  
Die sublichtmikroskopische Protoplasmastruktur von Geschwulstzellen. Z. Krebsforsch. 60:379-89. 1955.

Gigante, D. & M. G. Piccardo 1317  
Osservazioni al microscopio elettronico sul sangue di leucemici acuti trattati con aminopterine. 12th Congresso Soc. Ital. Ematol. Bologna. :136-7. 1954.

Gigante, D. & M. G. Piccardo 1318  
Studio al microscopio elettronico dei leucociti trattati con desossiribonucleasi. Boll. soc. ital. ematol. 2(1):121-2. 1954.

Gigante, D. & M. G. Piccardo 1319  
Studio al microscopio elettronico del nucleo-dei neutrofili e dei linfociti trattati con desossiribonucleasi. Haematologica. Pavia. 38:1425-30. 1954.

Gigante, Domenico & Marco Giorgio Piccardo 1320  
L'azione della Tem sulle cellule neoplastiche del cancro-ascite di Ehrlich studiata al microscopio elettronico. Ricerca Sci. 25(1):76-9. 1955.

Gigante, Roberto 1321  
Microscopia elettronica del virus del mosaico del tabacco. Boll. staz. patol. vegetale. 13:111-6. 1955.

Gille, F. 1322  
Zur Mikroskopie des Zements. Tagungsberichte der Zementindustrie. 11:129-57. 1955, and Zement-Kalk-Gips. 8(4):128-38. 1955.

Giuntini, Joseph, Emmanuel Barbu & Robert Wahl 1323  
Aspect morphologique au microscope électronique du bacteriophage D<sub>4</sub> de Salmonella enteritidis selon diverses techniques d'examen. Bull. microscop. appl. 5(1/2):24-7. 1955.

Giuntini, J. & E. Edlinger 1324  
Obtention de coupes très minces pour la microscopie électronique par une méthode utilisant la dilatation thermique. Application à l'étude d'Escherichia coli. Ann. inst. Pasteur. 86:671-4. 5/54.

Giuntini, J., E. Edlinger & P. Nicolle 1325  
Étude de quelques bactériophages typhiques Vi morphologie des corpuscules au microscope électronique, aspect des plages et thermosensibilité. Ann. inst. Pasteur. 84:787-91. 4/53.

Giuntini, J. & Y. T. Tchan 1326  
Étude de l'appareil nucléaire de quelques bactéries en microscopie électronique soumises à une digestion enzymatique par action de ribonuclease. Conf. of Electron Micros., Delft, 7/49. Proc. The Hague, Nijhoff, 1950. :159-62.

Glaser, Walter 1327  
Berechnung der optischen Konstanten starker magnetischer Elektronenlinsen. Ann. Physik. 7:213-27. 1950.

Glaser, Walter 1328  
Die Bedeutung der Elektronenoptik in Technik und Wissenschaft. Elektrotech u. Maschinenbau. 69:431-67. 1952.

Glaser, Walter 1329  
Grundlagen der Elektronenoptik. Wien, Springer-Verlag. 1952. 699p.

Glaser, Walter 1330  
Über die Bewegung eines "Wellenpakets" in einer Elektronenlinse. Österr. Ing. Arch. 7(2):144-52. 1953.

Glaser, W. 1331  
Bildentstehung im Elektronenmikroskop. Optik. 11:101-17. 1954.

Glaser, W. 1331a  
A model field for electrostatic electron lenses. (Abstract, Paper #A8, Electron Microscope Society of America Meeting, Highland Park, Ill. 10/14-6/54.). J. Appl. Phys. 25:1454. 1954.

Glaser, W. & Günther Braun 1332  
Zur wellenmechanischen Theorie der elektronenoptischen Abbildung I. Acta Phys. Austriaca. 9(1):41-74. 1954.

Glaser, W. & Günther Braun 1333  
Zur wellenmechanischen Theorie der elektronenoptischen Abbildung II. Acta Phys. Austriaca. 9(3/4):267-96. 1955.

Glaser, W. & H. Grömm 1334  
Die Kaustikfläche der Elektronenlinsen. Optik. 7:96-120. 2/50.

Glaser, W. & P. Schiske 1335  
Bildstörungen durch Polyschuhasymmetrien bei Elektronenlinsen. Z. angew. Phys. 5(9):329-39. 1953.

Glaser, Walter & Peter Schiske 1336  
Elektronenoptische Abbildung auf Grund der Wellenmechanik. I. Ann. Physik. 6(12):240-66. 4-6/53.

Glaser, Walter & Peter Schiske 1337  
Elektronenoptische Abbildungen auf Grund der Wellenmechanik. II. Ann. Physik. 6(12):267-80. 4-6/53.

Glaser, W. & P. Schiske 1338  
Strenge Durchrechnung einer typischen elektrostatischen Einzellinse. Optik. 11:422-43. and 445-67. 1954.

Glauert, Audrey M. & E. M. Brieger 1339  
The electron-dense bodies of Mycobacterium phlei. J. Gen. Microbiol. 13:310-7. 1955.

Glemser, O. & O. Butenuth 1340  
Veränderungen von Kaliumpermanganat im Elektronenstrahl im Vergleich zur thermischen Zersetzung. Optik. 10:42-3. 1953.



- Glemser, Oskar & Gottfried Butenuth 1341  
Wechselwirkung von Elektronen mit festen  
Stoffen. *Naturwissenschaften*. 19:508-9. 1953.
- Glemser, Oskar & Josef Einehand 1342  
Die Struktur höherer Nickelhydroxyde.  
*Z. anorg. Chem.* 261:43-51. 1950.
- Glemser, O. & G. Lutz 1343  
Über die Veränderung von Molybdäntrioxyd  
im Elektronenmikroskop und das Auftreten  
niederer Molybdänoxyde. *Kolloid-Z.* 119:99-  
102. 11/50.
- Glimstedt, G. & S. Lagerstedt 1344  
The effect of versene on the submicroscop-  
ical structure of isolated rat liver mito-  
chondria. *Kgl. Fysiograf Sällskap. Lund,*  
*Förh.* 23(14):1-8. 1953.
- Glimstedt, Gosta & Sten Lagerstedt 1345  
Weitere Untersuchungen über die Ultra-  
struktur isolierter Mitochondrien. *Verhandl.*  
*anat. Ges.* 51:97-101. 1953.
- Glimstedt, G., S. Lagerstedt & K. S.  
Ludwig 1346  
The demonstration of a matrix substance  
in isolated rat liver mitochondria. *Exptl.*  
*Cell Research.* 7(2):575-7. 1954.
- Glimstedt, G., S. Lagerstedt & K. S.  
Ludwig 1347  
The visualization of the granulated mito-  
chondrial inner body through treatment of  
isolated mitochondria with xylene. *Exper-*  
*ientia.* 10(11):462. 1954.
- Glimstedt, G., S. Lagerstedt & K. S.  
Ludwig 1348  
Effects of water and different fixatives  
on the submicroscopical structure of isolated  
rat liver mitochondria. *Kgl. Fysiograf Säll-*  
*skap. Lund, Förh.* 25(6):1-16. 1955.
- Gold, A. Herbert, Byron R. Houston &  
John W. Oswald 1349  
Electron microscopy of elongated particles  
associated with wheat streak mosaic. *Phyto-*  
*pathology.* 43(8):458-9. 8/53.
- Gold, A. H. & D. D. Jensen 1350  
An electron microscope study of cymbidium  
mosaic virus. *Am. J. Botany.* 38(7):577-8.  
7/51.
- Gold, A. H. & J. P. Martin 1351  
Electron microscopy of particles associated  
with sugar cane mosaic. *Phytopathology.* 45:  
694. 12/55.
- Gold, A. Herbert, Coit A. Suneson, Byron R.  
Houston & John W. Oswald 1352  
Electron microscopy and seed and pollen  
transmission of rod-shaped particles asso-  
ciated with the false stripe virus disease  
of barley. *Phytopathology.* 44(3):115-7. 3/54.
- Goldberg, H. S. & Billie S. Morgan 1353  
Change in bacterial morphology as a result  
of low concentrations of streptomycin. *J.*  
*Bacteriol.* 68(4):507-8. 10/54.
- Goldsmith, W. Noel & Francis F. Hellier 1354  
Electron microscopic studies. In *Recent*  
*Advances in Dermatology.* 2nd ed. London,  
Churchill, 1954. :389-95.
- Gomer, Robert 1355  
A novel method for the estimation of very  
low pressures. *J. Chem. Phys.* 19:1072-3. 8/51.
- Goodman, Joseph R., Roger Moore & Richard F.  
Baker 1356  
Electron microscope study of bacterial  
phagocytosis by human leucocytes. (Abstract,  
Paper #17, Electron Microscope Society of  
America Meeting, University Park, Pa., 10/27-  
9/55.) *J. Appl. Phys.* 26:1393. 1955.
- Goring, D. A. I. 1357  
Construction and use of a semimicro light-  
scattering apparatus. *Can. J. Chem.* 31:1078-  
92. 11/53.
- Gorrill, R. H. & C. E. Challice 1358  
Further observations on the electron micro-  
scope changes following induction of *E. coli*  
*K<sub>12</sub>*. *Biochim. et Biophys. Acta.* 16:82-6. 1955.
- Goto, Shio & Masataka Kurokawa 1359  
Observation of the surface of fermentation-  
degumming silk by electron microscope. 1st  
Int. Cong. Electron Micros., Paris, 9/50.  
*Proc.* :487. Paris, Ed. Rev. Optique, 1953.
- Goto, Susumu 1360  
Elektronenmikroskopische Untersuchung der  
regenerierenden Achillessehne der Maus. *Arch.*  
*Histol. Jap.* 6(2):183-8. 1954.
- Götte, E., W. Kling & H. Mahl 1361  
Zur Kenntnis des Waschvorganges X / Der  
Waschvorgang unter dem Elektronenmikroskop.  
*Melliand Textilber.* 35(11):1252-7. 1954.
- Gotte, L. & P. F. Munari 1362  
Primi risultati sulla struttura submicro-  
scopica del muscolo cardiaco e del fascio di  
His nel *bos taurus*. *Boll. soc. ital. biol. sper.*  
29(3):338-9. 1953, and *Atti. soc. med.-chir.*  
*Padova.* 30:268-9. 1953.
- Gotte, Lorenzo & Pietro Franco Munari 1363  
Contributo allo studio istochimico ultra-  
microscopico del materiale elastico. *Atti*  
*soc. med.-chir. Padova.* 33:5-15. 1955.
- Gotte, L. & P. F. Munari 1364  
Sulla struttura submicroscopica della mio-  
fibrille elementari cardiache. *Arch. sci. biol.*  
*Italy.* 39:711-21. 1955.
- Gottsacker, Ernst 1365  
Elektronenoptische Aufnahmen von Tbc-  
Bakterien. *Zentr. Bakteriolog. Parasitenk. Abt.*  
*I. Orig.* 155:116\*-7\*. 5/25/50.
- Grace, Joyce B. 1366  
Some observations on the flagella and  
blepharoplasts of *Spirillum* and *Vibrio* spp.  
*J. Gen. Microbiol.* 9(2):325-7. 4/54.
- Graf, Ludwig & Wolfram Morgenstern 1367  
Fadenförmige Wachstumsformen bei der Elek-  
trokristallisation des Silbers. *Z. Naturforsch.*  
10a(4):345-6. 1955.
- Grange, R. A., J. F. Boyce & V. G. Peck 1368  
The transformation of austenite in 8630  
steel. *Metal Progr.* 57:637-42. 5/50.
- Granger, Barbara & Richard F. Baker 1369  
Electron microscopic investigation of the  
striated border of intestinal epithelium.  
*Anat. Record.* 107:423-41. 8/50.



- Grasenick, F. & R. Haefer 1370  
Zur elektronenmikroskopischen Untersuchen  
von Oberflächen mit Hilfe von Kohlehüllen.  
Monatsh. Chem. 83:1069-82. 4/52.
- Grasenick, F., A. Propst & M. Ratzenhofer 1371  
Elektronenmikroskopische Untersuchung  
krankhafter Verkalkungsherde in menschlichen  
Gewebe. Monatsh. Chem. 83(4):1062-8. 1952.
- Grasse, Pierre, Nina Carasso & Pierre  
Favard 1372  
Les Dictyosomes (appareil de Golgi) et  
leur ultra-structure. Compt. rend. acad.  
sci. 241:1243-5. 11/7/55.
- Grasse, Pierre, Nina Carasso & Pierre  
Favard 1373  
L'ultrastructure de la spermatide de l'  
escargot (*Helix pomatia* L.): chromosomes,  
enveloppes, nucléaires, centrosome. Compt.  
rend. acad. sci. 241:1430-2. 11/21/55.
- Grasset, E. & V. Bonifas 1374  
Étude comparées des caractères biologiques  
conditionnant la valeur antigénique du vaccin  
BCG et leur interprétation au microscope élec-  
tronique. Bull. acad. suisse sci. med. 7(1)  
:71-86. 1951.
- Grassmann, W. 1375  
Electron optical and chemical studies on  
the structure of collagen. In *The Chemical  
Structure of Proteins, a Ciba Foundation  
Symposium*. :195-210. Boston, Little, Brown,  
1954.
- Grassmann, W., Ulrich Hofmann & Th.  
Nemetschek 1376  
Die Querstreifung von Kollagenfibrillen.  
Naturwissenschaften. 39:215-6. 1952.
- Gray, Margaret, Harvey Blank & G. Rake 1377  
Electron microscopy of normal human skin.  
J. Invest. Dermatol. 19(6):449-56. 12/52.
- Graziosi, Franco & Giuseppe Russo 1378  
Studio al microscopio elettronico di un  
batteriofago attivo sul *B. megatherium*. Rend.  
ist. super. sanità. 15:839-44. 1952.
- Green, David E. 1379  
The metabolism of fats. Sci. American.  
190:32-6. 1/54.
- Green, Irving & D. G. Sharp 1380  
The ATPase activity of avian erythromyelo-  
blastic leukemia virus. I. Introductory  
kinetics. Biochim. et Biophys. Acta. 18:36-  
42. 1955.
- Green, John D. & Verne L. Van Breeman 1381  
Electron microscopy of the pituitary and  
observations on neurosecretion. Am. J. Anat.  
97(2):177-228. 1955.
- Green, T. D., J. B. Bateman, R. E. Hartman,  
C. A. Senseney & G. E. Hess 1382  
Preparation of uniformly dispersed speci-  
mens of particulate matter for examination  
with the electron microscope. (Abstract, Paper  
#20, Electron Microscope Society of America  
Meeting, Philadelphia, Pa., 12/8-10/51.)  
J. Appl. Phys. 23:159. 1/52.
- Gregg, Robert Q. 1383  
An auxiliary circuit to reduce high-voltage  
arcing in the RCA EMU electron microscope.  
Rev. Sci. Instr. 24(11):1065-6. 1953.

- Grégoire, Charles 1384  
Microscope électronique et recherche  
biologique. Paris, Masson & Cie., 1950. 172p.
- Grégoire, Ch. 1385  
Virus-like bodies in the blood of the house  
cricket. J. Gen. Microbiol. 5(1):121-3. 2/51.
- Grégoire, Ch. 1386  
Particules en forme de virus observées au  
microscope électronique dans le sang du grillon  
domestique. 1st Int. Cong. Electron Micros.,  
Paris, 9/50. Proc. :618. Paris, Ed. Rev.  
Optique, 1953.
- Grégoire, Ch., Gh. Duchateau & M. Florkin 1387  
Étude au microscope électronique des con-  
stituants organiques de la nacre de mollusque.  
1st Int. Cong. Electron Micros., Paris, 9/50.  
Proc. :736-9. Paris, Ed. Rev. Optique, 1953.
- Grégoire, Ch., Ghislane Duchateau & M.  
Florkin 1388  
La trame protidique des nacres. Experientia.  
10:37-40. 1/54.
- Grégoire, Ch., Gh. Duchateau & M. Florkin 1389  
La trame protidique des nacres et des perles.  
Ann. inst. Océanog, Paris. 31(1):1-36. 1/12/55.
- Gregory, John E. 1390  
Electron microscopy of human cancer virus.  
In *Pathogenesis of Cancer*. 2nd edition.  
Pasadena, Calif., Fremont Foundation, 1952. 202p
- Greifelt, A. 1391  
Das *Treponema pallidum* im Elektronenmikroskop.  
Minerva dermatol. 30(11):330-2. 11/55.
- Greifelt, A. & E. Mólbert 1392  
Elektronenmikroskopische Untersuchungen zur  
Morphologie des *Treponema pallidum*. Hautarzt.  
6:17-20. 1/55.
- Gresson, R.A.R. 1393  
The structure and formation of the mammalian  
spermatozoon. La Cellule. 54(1):81-102. 1951.
- Grey, Clifford E. & John J. Bieseke 1394  
Development and use of a simple ultramicro-  
tome in cancer research. (Abstract, Paper #10,  
Electron Microscope Society of America Meeting,  
Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys.  
24:113. 1953.
- Grey, Clifford E. & John J. Bieseke 1395  
An electron microscope study of white blood  
cells. (Abstract, Paper #75, Electron Micro-  
scope Society of America Meeting, Pocono Manor,  
Pa., 11/5-7/53.) J. Appl. Phys. 24:1425. 11/53.
- Grey, C. E. & J. J. Bieseke 1396  
Thin section electron microscopy of circu-  
lating white blood cells. Rev. hématol.  
10(2):283-99. 1955.
- Grignolo, A. 1397  
Ricerche sulla struttura submicroscopica  
della cristalloide. Giorn. ital. oftalmol.  
7(3):1-23. 1954.
- Grignolo, Antonio 1398  
Studi sulla struttura submicroscopica dei  
tessuti oculari. Boll. oculist. 33(9):1-144.  
1954.
- Grinberg, G. A. 1399  
On some classes of static axially symmetric  
electric and magnetic fields for which the

basic equation of electron optics admits of solution in terms of known functions. Zh. tekhn. Fiz. 23:1904-14. 1953.

Grisdale, R. O. 1400  
The formation of black carbon. J. Appl. Phys. 24:1082-91. 9/53.

Grisdale, R. O. 1401  
The properties of carbon contacts. J. Appl. Phys. 24:1288-96. 10/53.

Grivet, Pierre 1402  
Electron microscopy in metallurgy. In Metallurgical Applications of the Electron Microscope. Institute of Metals Monograph and Report Series No. 8. :19-36. London, 1950.

Grivet, P. 1403  
Évolution et aspect actuel du microscope électronique. Le Congrès International de Microscopie Électronique, Paris, 14-22 September 1950. Biochim. et Biophys. Acta. 7:1-18. 1951.

Grivet, P. 1404  
Un nouveau modèle mathématique de lentille électronique. Compt. rend. acad. sci. 233: 921-3. 1951.

Grivet, P. 1405  
Éléments cardinaux d'un nouveau modèle de lentille électronique. Compt. rend. acad. sci. 234:73-5. 1/2/52.

Grivet, P. 1406  
Un nouveau modèle mathématique de lentille électronique. J. phys. radium. 13:1A-9A. 1952.

Grivet, P. & M. Bernard 1407  
Éléments gaussiens dans la lentille électrostatique formée de deux cylindres coaxiaux de même diamètre. Compt. rend. acad. sci. 233:788-90. 10/8/51.

Grivet, P. & M. Bernard 1408  
Sur le potentiel axial de la lentille à trois électrodes. J. phys. radium. 13:47-8. 1/52.

Grivet, Pierre & M. Bernard 1409  
Théorie de la lentille électrostatique constituée par deux cylindres coaxiaux. Ann. radioélec. 6(27):1-9. 1/52.

Grivet, P. & E. Regenstreif 1410  
Sur un nouveau microscope électrostatique à trois lentilles agrandissantes. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :230-6. Paris, Ed. Rev. Optique, 1953.

Gross, J. 1411  
Fiber formation in trypsinogen solutions: an electron optical study. Proc. Soc. Exptl. Biol. Med. 78:241-4. 1951.

Gross, Jerome 1412  
Fiber formation in trypsinogen solutions. (Abstract, Paper #39, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:163. 1/52.

Gross, Jerome 1413  
Evaluation of structural and chemical changes in connective tissue. Ann. N. Y. Acad. Sci. 56(4):674-83. 7/17/53.

Gross, J., J. H. Highberger & F. O. Schmitt 1414  
A new fibrous structure obtained from extracts of collagenous connective tissue. (Abstract, Paper #20, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:112. 1951.

Gross, Jerome, John H. Highberger & F. O. Schmitt 1415  
Collagen structures considered as states of aggregation of a kinetic unit. The tropocollagen particle. Proc. Natl. Acad. Sci. U.S. 40(8):679-88. 8/54.

Gross, Jerome, J. H. Highberger & F. O. Schmitt 1416  
Extraction of collagen from connective tissue by neutral salt solutions. Proc. Natl. Acad. Sci. U.S. 41(1):1-7. 1/55.

Gross, J., Gedeon Matoltsy & Carolyn Cohen 1417  
Vitrosin: a member of the collagen class. J. Biophys. Biochem. Cytol. 1(3):215-20. 5/25/55.

Gross, Ludwik 1418  
Mouse leukemia. Ann. N. Y. Acad. Sci. 54:1184-96. 7/10/52.

Gross, Ludwik, Albert Gessler, & Kenneth S. McCarty 1419  
Electron-microscopic examination of human milk particularly from women having family record of breast cancer. Proc. Soc. Exptl. Biol. Med. 75:270-6. 10/50.

Gross, Ludwik, Kenneth S. McCarty & Albert E. Gessler 1420  
The significance of particles in human milk. Ann. N. Y. Acad. Sci. 54:1018-34. 7/10/52.

Grube, William L. 1421  
Electron metallography of cemented carbides. Metal Progr. 57:341-5. 3/50.

Grube, W. L. 1422  
Electron metallography of cemented carbides. (Abstract, Paper #22, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:69. 1950.

Grube, William L. 1423  
Selection of etchants for electron metallography. (Abstract, Paper #4, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:110. 1951.

Grube, W. L. 1424  
Useful etchants for electron metallography. J. Metals. 1171-3. 12/51.

Grube, W. L. & S. R. Rouze 1425  
A technique for making strain-free replicas for electron metallography. Am. Soc. Testing Materials, Bull. 179:71-3. 1/52.

Grube, W. L. & S. R. Rouze 1426  
Pre-shadowed replicas for electron metallography. Am. Soc. Testing Materials, Proc. 52:573-89. 1952.

Grube, W. L. & S. R. Rouze 1427  
Pre-shadowed replicas for electron metallography. (Abstract, Paper #14, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:113. 1953.



- Grube, W. L. & S. R. Rouze 1428  
Specimen polishing techniques for electron metallography of steel. Symposium on Techniques for Electron Metallography. Special Technical Publication #155. Am. Soc. Testing Materials. :83-95. 7/53.
- Gruha, E. A. & S. E. Hartsell 1429  
Intracellular structures in *Caulobacter vibrioides*. J. Bacteriol. 68(4):498-504. 10/54.
- Gruha, E. A. & S. E. Hartsell 1430  
Lysozyme action and its relation to the Nakamura effect. J. Bacteriol. 68(3):302-6. 9/54.
- Gruha, E. & S. E. Hartsell 1431  
Lysozyme and morphological alterations induced in *Micrococcus lysodeikticus*. J. Bacteriol. 68(2):171-7. 8/54.
- Gruha, E. A., R. H. Weaver & O. F. Edwards 1432  
Studies on a strain of *caulobacter* from water. II. Nutrition, with implications for cytology. J. Bacteriol. 68(2):201-6. 8/54.
- Grümm, Hans 1433  
Die Eigenladungs-Verbreiterung eines fokussierten Elektronenbündels. Ann. Physik. 11 (2/3):131-44. 1952.
- Grümm, Hans 1434  
Zur Dioptrik des Elektronen- und Ionenbündels mit kreisförmiger Hauptbahn. Acta Phys. Austriaca. 8(2):119-40. 1953.
- Grümm, H. 1435  
Bemerkungen zur chromatischen Aberration von Elektronenlinsen. Ann. Physik. 14(3/5):193-200. 1954.
- Grümm, H. 1436  
Die geometrisch-optische Intensitätsverteilung im Brennfleck des abgelenkten Elektronenstrahlbündels. Optik. 11:32-43. 1954.
- Grümm, H. 1437  
Anwendung der Schneidenmethode zur Bestimmung der Aberrationen von abgelenkten Elektronenbündeln. Optik. 12:544-53. 1955.
- Grümm, H. 1438  
Elektronen- und Ionenbündel mit krummer Achsenwellenmechanisch betrachtet. Optik. 12 :153-55. 1955.
- Grümm, H. 1439  
Zur Frage der unteren Grenze des Öffnungsfehlers bei magnetischen Elektronenlinsen. Optik. 2:92-3. 1956.
- Grümm, H. & J. Wagner 1440  
Die Deformation von Elektronen-Beugungsringen durch Linsenfehler. Acta Phys. Austriaca. 9(1):33-40. 1954.
- Grün, Ludwig & Walter Hennessen 1441  
Einige Beobachtungen bei der bacteriophagen Lyse. Neue med. Welt. 25:879-80. 6/24/50.
- Grün, L. & J. Stelter 1442  
Ultraschalleinwirkung auf Mikroorganismen. Z. Hyg. Infektionskrankh. 141:267-314. 5/16/55.
- Grün, L. & W. Tischer 1443  
Gerät zur Herstellung von Abklatschpräparaten im Auf- und Durchlicht für elektronenoptische Untersuchungen. Optik. 9:241-2. 1952.
- Grünfeld, Otto 1444  
Kieselkreide und ihre Stellung in der Gummi-Industrie. Kautschuk u. Gummi. 10:205-10. 1953.
- Grünholz, Gerhard 1445  
Pleuropneumonieartige Mikroorganismen bei "Viruspneumonien." Klin. Wochschr. 28:480-1. 7/15/50.
- Grünholz, G. & Hannelore Grünholz 1446  
Elektronenoptische Untersuchungen über Morphologie und Entwicklung pleuropneumonieartiger Mikroorganismen menschlicher Herkunft. Optik. 7:325-6. 4-5/50.
- Guha, A. N. N. Das Gupta & M. L. De 1447  
Nuclear apparatus of *Escherichia coli* after fixation in chromic acid and osmium tetroxide. J. Bacteriol. 67(3):292-4. 1954.
- Guha, A., M. L. De & S. P. Ray-Chaudhuri 1448  
Electron microscopic study of grasshopper chromosomes. Nature. 170:360-1. 8/52.
- Guilbot, Andre & Gustave Levavasseur 1449  
Structure submicroscopique de l'amidon: I. Mise en évidence, au microscope électronique de différents éléments structuraux, après dispersion aqueuse du grain à diverses températures. Compt. rend. acad. sci. 239:728-30. 1954.
- Gulbransen, Earl A. & William R. McMillan 1450  
Electron optical studies of the initial stage of oxidation of pure iron single crystals. (Abstract, Paper #22, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1416. 11/53.
- Gulbransen, Earl A., William R. McMillan & Kenneth F. Andrew 1451  
Electron optical study of oxidation of high purity iron at low oxygen pressures. J. Metals. :1027-36. 9/54.
- Gupta, B. M., S. S. Misra, Sami Hamid & A. Pande 1452  
Tropical pulmonary eosinophilia -- a note on haemagglutination and on electron microscopic studies. J. Sci. Ind. Research India. :12B(4):180-1. 1953.
- Gustafson, Paul V., Hilda D. Agar & Dorothy I. Cramer 1453  
An electron microscope study of *Toxoplasma*. Am. J. Trop. Med. Hyg. 3(6):1008-21. 11/54.
- Guthrie, J. W. & R. W. Fulton 1454  
Virus-like particles in *Solanum tuberosum*. Phytopathology. 44(8):473-8. 1954.
- Haanstra, H. B. 1455  
Quelques applications du microscope électronique aux Philips Gloeilampenfabrieken N. S. A. Eindhoven. Rapport Europées Congrès Toeg. Em. Gent, 4/7-10/54. :45-51.
- Haanstra, H. B. 1456  
Ein einfaches Ultramikrotom. Philips tech. Rundschau. 17(6):200-6. 1955.
- Haanstra, H. B. 1457  
A simple ultramicrotome. Philips Tech. Rev. 17(6):178-83. 12/55.
- Haardick, Heinrich 1458  
Das Verhalten lichtempfindlicher Aufdampfschichten im Elektronenmikroskop. Naturwissenschaften. 14:386. 1953.



- Habermann, Ernst & Elisabeth Mölbert 1459  
Zur morphologischen Differenzierung der Hämolyse durch Bienengift, Schlangengift, Lysocithin und Digitonin. Arch. exptl. Pathol. Pharmacol. 223:203-16. 1954.
- Habraken, L. 1460  
Etude de poudres de sulfure de zinc en microscopie et en diffraction électronique. Rev. universelle mines. 6(3):65-71. 1950.
- Habraken, L. 1461  
Sur la métallographie électronique. Techniques opératoires. Etude des structures d'aciers. Au carbone et d'aciers faiblement alliés. Etude du comportement à chaud d'un acier au Cr-Mo. Liege, Centre National de Recherches Métallurgiques. 1953. 165 p.
- Habraken, L. 1462  
Les courbes TTT et les traitements thermiques. Rev. universelle mines. 10(7):3-19. 1954.
- Habraken, L. 1463  
L'influence de l'attaque en métallographie électronique. Rapport Européen Congrès. Toeg. Em. Gent, 4/7-10/54. :207-15.
- Habraken, L. 1464  
La métallographie électronique. Application à l'étude des Aciers Ferritiques résistants à chaud. Rev. Soc. roy. belge ingrs. et industriels. 3:136-62. 1955.
- Habraken, L. & P. Coheur 1465  
Etude de la bainite inférieure au microscope électronique. Rev. universelle mines. 3:1-7. 1951, and 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :403-7. Paris, Ed. Rev. Optique, 1953.
- Hachisuka, Yoetsu, Nobuo Asano, Nobuo Kato, & Tsuneji Kuno 1466  
Decrease of optical density of spore suspensions (*B. subtilis*) and its relation to its relation to spore germination. Nagoya J. Med. Sci. 17(5):403-10. 12/54.
- Hachisuka, Y., Nobuo Asano, N. Kato & T. Kuno 1467  
Studies on bacterial spores. II. Nitrogen source requirement in development of germination, and IV. Effects of various carbon sources and inhibitors on spore germination. Japan J. Bacteriol. 9(12):1129-33. 1954, and 10(9):799-802. 1955.
- Haedicke, Thomas A, R. L. Reagan, Dorothy Schenck & A. L. Brueckner 1468  
A demonstration of *Mycobacterium leprae* by electron microscopy. Intern. J. Leprosy. 20:47-52. 1-3/52.
- Haefer, R. 1469  
Zur Frage der Sichtbarmachung einzelner Moleküle im Feldelektronenmikroskop. Acta Phys. Austriaca. 8(2):105-18. 1953.
- Haefer, R. 1470  
Über dünne aus Methan in der selbständigen elektrischen Hochvakuumladung gebildete Schichten. Acta Phys. Austriaca. 9(1):1-17. 1954.
- Haguenau, Françoise 1471  
L'appareil de Golgi vu au microscope électronique. Bull. microscop. appl. 5(1/2):18-20. 1955.
- Haguenau, F. & W. Bernhard 1472  
Le problème de l'ultrastructure du cytoplasme et des artefacts de fixation. Exptl. Cell Research. 3:629-48. 12/52.
- Haguenau, Françoise & W. Bernhard 1473  
Aspect de la substance de Nissl au microscope électronique. Exptl. Cell Research. 4:496-8. 5/53.
- Haguenau, Françoise & W. Bernhard 1474  
L'appareil de Golgi dans les cellules normales et cancéreuses de vertébrés. Rappel historique et étude au microscope électronique. Arch. Anat. micr. 44(1):27-55. 1955.
- Haguenau, Françoise & W. Bernhard 1475  
Particularités structurales de la membrane nucléaire. Etude au microscope électronique de cellules normales et cancéreuses. Bull. assoc. franç. étude cancer. 42(5):537-44. 1955.
- Haguenau, F., C. Rouiller & F. Lacour 1476  
Corpuscules d'aspect viral dans l'endothéliome de Murray-Begg. Etude au microscope électronique. Bull. assoc. franç. étude cancer. 42(3):350-7. 1955.
- Hahn, Eberhard 1477  
Über die Korrektur des axialen Astigmatismus elektrostatischer Objektive. Jenaer Jahrbuch. 63-75. 1954.
- Haine, M. E. 1478  
The Electron Microscope, a review. In Advances in Electronics and Electron Physics. 6:295-370. 1954.
- Haine, M. E. 1479  
Elektronenmikroskopische Untersuchungen im AEI-Forschungslaboratorium in Aldermaston, England. Optik. 11:133-44. 1954.
- Haine, M. E. & J. Dyson 1480  
A modification to Gabor's proposed diffraction microscope. Nature. 166:315-6. 8/19/50.
- Haine, M. E. & P. A. Einstein 1481  
Characteristics of the hot cathode electron microscope gun. Brit. J. Appl. Phys. 3:40-6. 2/52.
- Haine, M. E. & W. Hirst 1482  
The adaptation of an electron microscope for reflexion and some observations on image formation. Brit. J. Appl. Phys. 4:239-44. 8/53.
- Haine, M. E. & T. Mulvey 1483  
The formation of the diffraction image with electrons in the Gabor diffraction microscope. J. Opt. Soc. Amer. 42:763-73. 10/52.
- Haine, M. E. & T. Mulvey 1484  
The application and limitations of the edge-diffraction test for astigmatism in the electron microscope. J. Sci. Instr. 31:326-32. 1954.
- Haine, M. E. & T. Mulvey 1484a  
The practical attainment of high resolving power. (Abstract, Paper #A15, Electron Microscope Society of America Meeting, Highland Park, Ill. 10/14-6/54.) J. Appl. Phys. 25:1455. 1954.
- Haine, M. E., R. S. Page & R. G. Garfitt 1485  
A three-stage electron microscope with stereographic dark field, and electron diffraction capabilities. J. Appl. Phys. 21:173-82. 2/50.

- Hajosi, Gy., J. Vadasz & F. Guba 1486  
Elektronenmikroskopische Untersuchungen  
von Zellenkulturen mit modifizierter Präpara-  
tionstechnik. Acta Morphol. Acad. Sci. Hung.  
4(4):545-9. 1954.
- Hall, B. Vincent 1487  
Studies of normal glomerular structure by  
electron microscopy. Proc. 5th Ann. Conf. on  
the Nephrotic Syndrome, Philadelphia, Pa.,  
11/5-7/53. :1-39. New York, The National  
Nephrosis Foundation, Inc., 1954.
- Hall, B. Vincent 1488  
Discussion contributed by invitation to the  
symposium on "Histochemistry and elucidation  
of kidney structure and function" held at the  
Jefferson Medical College, Philadelphia, Pa.,  
April 5, 1955. J. Histochem. Cytochem. 3(4)  
:310-2. 1955.
- Hall, B. Vincent 1489  
Further studies of the normal structure of  
the renal glomerulus. Proc. 6th Ann. Conf. on  
The Nephrotic Syndrome, Western Reserve Univ.,  
Cleveland, Ohio, 11/5-6/54. :1-39. New York,  
The National Nephrosis Foundation, Inc., 1955.
- Hall, B. Vincent & L. E. Roth 1490  
Further studies on the minute functional  
anatomy of the glomerulus and tubules of the  
rat kidney. (Abstract, Paper #71, Electron  
Microscope Society of America Meeting, Pocono  
Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1424.  
11/53.
- Hall, C. E. 1491  
Electron microscopy of crystalline edestin.  
J. Biol. Chem. 185:45-51. 7/50.
- Hall, C. E. 1492  
A low temperature replica method for elec-  
tron microscopy. J. Appl. Phys. 21:61-2. 1/50.
- Hall, C. E. 1493  
The molecular configuration in seed globulin  
crystals. (Abstract, Paper #26, Electron Micro-  
scope Society of America Meeting, Washington,  
D. C., 10/6-8/49.) J. Appl. Phys. 21:69. 1950.
- Hall, C. E. 1494  
Scattering phenomena in electron microscope  
image formation. J. Appl. Phys. 22:655-62.  
5/51.
- Hall, Cecil E. 1495  
Introduction to electron microscopy.  
New York, McGraw-Hill, 1953. 451p.
- Hall, C. E. 1496  
Measurements of electron scattering with  
the electron microscope. Natl. Bur. Standards  
U. S., Circ. 527:95-100. 3/54.
- Hall, C. E. 1496a  
Measurements of electron stains absorbed  
by virus. (Abstract, Paper #F4, Electron  
Microscope Society of America Meeting, High-  
land Park, Ill., 10/14-6/54.) J. Appl. Phys.  
25:1461. 1954.
- Hall, Cecil E. 1497  
Electron densitometry of stained virus  
particles. J. Biophys. Biochem. Cytol. 1(1)  
:1-12. 1/25/55.
- Hall, D. A., R. Reed & R. E. Tunbridge 1498  
Electron microscope studies of elastic
- tissue. Exptl. Cell Research. 8:35-48. 1955.
- Halldal, Per & Joar Markali 1499  
Morphology and microstructure of coccoliths  
studied in the electron microscope. Observa-  
tions on *Anthosphaera robusta* and *Calypetro-  
sphaera papillifera*. Nytt Mag. Botanikk. 2:177-9.  
1954.
- Halldal, P. & J. Markali 1500  
Observations on coccoliths of *Syracosphaera  
mediterranea* Lohm, *S. pulchra* Lohm, and *S.  
molischii* Schill. in the electron microscope.  
J. Conseil, permanent intern. exploration mer.  
19(3):329-36. 1954.
- Halldal, Per & Joar Markali 1501  
Electron microscope studies on coccolitho-  
phorids from the Norwegian Sea, the Gulf Stream  
and the Mediterranean. Skrifter Norske Viden-  
skaps-Akad. Oslo. I. Mat. Naturv. Kl. 1955.  
(1) 30p.
- Halldal, Per, Joar Markali & Tor Naess 1502  
A method for transferring objects from a  
light microscope to marked areas on electron  
microscope grids. Mikroskopie. 9(5/6):197-200.  
1954.
- Halliday, J. S. 1503  
Surface examination by reflection electron  
microscopy. Engineer. 199:569-73. 1955.
- Halliday, J. S. & W. Hirst 1504  
The examination of oxide films by reflection  
electron microscopy. Proc. Phys. Soc. London.  
68B:178-81. 1955.
- Halma, H. 1504a  
A film camera for the RCA type EMU electron  
microscope. (Abstract, Paper #A4, Electron  
Microscope Society of America Meeting, Highland  
Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:  
1453. 1954.
- Halma, H. & G. B. Chapman 1504b  
A simple ultramicrotome. (Abstract, Paper  
#A19, Electron Microscope Society of America  
Meeting, Highland Park, Ill., 10/14-6/54.)  
J. Appl. Phys. 25:1455. 1954.
- Halma, H. & J. Hillier 1505  
Improvements on the electron microscope  
specimen stage. (Abstract, Paper #3, Electron  
Microscope Society of America Meeting, Pocono  
Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1414.  
11/53.
- Hamdi, H. & R. Iberg 1506  
Zur Kenntnis der alluvialen Tone des Nils.  
Z. Pflanzenernähr. Düng. u. Bodenk. 67:193-7.  
1954.
- Hamilton, J. 1507  
A step wedge for sensitometry with the elec-  
tron microscope. Rev. Sci. Instr. 24:309-12.  
4/53.
- Hamilton, J. F. & F. A. Hamm 1507a  
Distant packing of synthetic latices.  
(Abstract, Paper #12, Electron Microscope Soc-  
iety of America Meeting, Highland Park, Ill.,  
10/14-6/54.) J. Appl. Phys. 25:1465. 1954.
- Hamilton, Leonard, Mark Gettner & C. C. Stock 1508  
A study of the fine structure of *Paramecia  
aurelia* "killers" and "sensitives." (Abstract,



Paper #42, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:163. 1/52.

Hamilton, R. J. 1509  
The relation between free falling speed and particle size of airborne dusts. Brit. J. Appl. Phys. Suppl. 3:S90-5. 1954.

Hamm, F. A. 1510  
Electron microscopy. Anal. Chem. 22:26-30. 1/50.

Hamm, F. A. 1511  
A lapping technique to improve the image quality of electron microscope lenses. J. Appl. Phys. 21:271-8. 4/50.

Hamm, F. A. 1512  
An electron microscope photometer. (Abstract, Paper #10, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:111. 1951.

Hamm, F. A. 1513  
An electron microscope photometer. Rev. Sci. Instr. 22(12):895-8. 12/51.

Hamm, F. A. 1514  
Electron microscopy. Anal. Chem. 23:17-20. 1/51.

Hamm, F. A. & J. J. Comer 1515  
Electron microscopical studies of photographic grains; specimen preparation techniques. (Abstract, Paper #1, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:111. 1953.

Hamm, F. A. & J. J. Comer 1516  
The electron microscopy of photographic grains. Specimen preparation techniques and applications. J. Appl. Phys. 24(12):1495-1513. 12/53.

Hamm, F. A. & F. C. Snowden 1517  
Vibration studies: related to electron microscopy. (Abstract, Paper #2, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:66. 1950.

Hamm, F. A. & F. C. Snowden 1518  
Vibration studies: related to electron microscopy. Rev. Sci. Instr. 21:426-31. 5/50.

Hammen, R., Jorgen Schultz-Larsen & F. E. Carlsen 1519  
Electron microscope of human spermatozoa. Fertility and Sterility. 5(5):411-20. 9-10/54.

Hampikian, Aram M. 1520  
Une machine calculatrice analogique pour l'étude des trajectoires dans les lentilles électroniques. Compt. rend. acad. sci. 236:1864-6. 5/11/53.

Hampp, Edward G., David B. Scott & Ralph W. G. Wyckoff 1521  
Morphologic characteristics of the oral fusiform bacilli as revealed by the electron microscope. (Abstract, Paper #41, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:71. 1950.

Hampton, J. W. F., A. Polson & G. Selzer 1522  
Demonstration of the purity of a preparation of poliomyelitis virus. Biochim. et

Biophys. Acta. 17:592. 1955.

Hampton, J. W. F. 1523  
The dissociation of poliomyelitis virus. Biochim. et Biophys. Acta. 18:446-7. 1955.

Hannay, C. L. & P. Fitz-James 1524  
The protein crystals of *Bacillus thuringiensis* Berliner. Can. J. Microbiol. 1:694-710. 1955.

Hansen, I. A. & P. M. Nossal 1525  
Morphological and biochemical effects of freezing on yeast cells. Biochim. et Biophys. Acta. 16:502-12. 1955.

Hanson, Jean & H. E. Huxley 1526  
The location of actin and myosin in striated muscle. (Abstract, Paper #52, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1421. 11/53

Hanson, Jean & Hugh E. Huxley 1527  
Structural basis of the cross-striations in muscle. Nature. 172:530. 9/19/53.

Hanson, Jean, J. T. Randall & S. T. Bayley 1528  
The microstructure of the spermatozoa of the snail *Viviparus*. Exptl. Cell Research. 3:65-78. 2/52.

Happold, F. C., K. I. Johnstone, H. J. Rogers & Jean B. Youatt 1529  
The isolation and characteristics of an organism oxidizing thiocyanate. J. Gen. Microbiol. 10(2):261-6. 4/54.

Harada, Hiroshi 1530  
Electron-microscopic investigation on the wart-like (particle) structure of conifer tracheids. Nippon Ringaku Kaishi. 35:393-6. 12/53.

Harada, Hiroshi 1531  
The electron-microscopic observation of xylary ray cells of conifer woods. (in Japanese) Nippon Ringaku Kaishi. 35(6):194-200. 6/53.

Harada, Hiroshi 1532  
Electron microscopic investigation on the wart-like structure of conifer tracheids. II. Mokuzai Gakkaishi. 1(2):85-90. 10/55.

Harada, Hiroshi & Yukio Miyazaki 1533  
The electron-microscopic observation of the cell wall of conifer tracheids. (in Japanese) Nippon Ringaku Kaishi. 34(11):350-2. 11/52.

Harel, J. 1534  
Étude au microscope électronique de l'action sur les cellules étalées des solutions salines, et des solutions sucrées employées dans les techniques d'ultracentrifugation. Compt. rend. soc. biol. 148:287-91. 1954.

Harel, J. & M. Bussmann 1535  
Étude cytologique au microscope électronique du liquide céphalo-rachidien et des liquides d'épanchements. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :683-7. Paris, Ed. Rev. Optique, 1953.

Harel, J. & P. Vigier 1536  
Étude comparative au microscope électronique des particules isolées per centrifugation différentielle du plasma des poules normales et leucémiques. Bull. assoc. franç. étude Cancer. 40(2):186-93. 1953.

Harford, Carl G. & Alice Hamlin 1537



Electron microscopy of early cytoplasmic changes due to influenza virus. J. Lab. Clin. Med. 42:813-4. 11/53.

Harford, Carl G., Alice Hamlin & Esther Parker 1538

Electron microscopy of early cytoplasmic changes due to influenza virus. J. Exptl. Med. 101(6):577-90. 6/55.

Harford, C. G., Alice Hamlin & Esther Parker 1539

Electron microscopy of Hela cells infected with ARD virus. Trans. Assoc. Am. Physicians. 68:82-6. 1955.

Harman, John W. 1540

Relation of mitochondria to enzymic processes in muscle. Am. J. Phys. M. 34(1): 68-88. 2/55.

Harris, J. Ieuan & C. A. Knight 1541

Studies on the action of carboxypeptidase on tobacco mosaic virus. J. Biol. Chem. 214(1):215-30. 5/55.

Harris, John O., A. Eisenstark & R. D. Dragsdorf 1542

A study of the location of adsorbed mercuric ions in *Escherichia coli*. J. Bacteriol. 68 (6):745-8. 12/54.

Harris, Patricia & T. W. James 1543

Electron microscope study of the nuclear membrane of *Amoeba proteus* in thin section. Experientia. 8:384-5. 10/15/52.

Harris, W. W. & Frances L. Ball 1544

The structure of some thin copper oxide films formed on single crystal faces. (Abstract, Paper #21, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1416. 11/53.

Harris, W. W. & Frances L. Ball 1544a

The formation and growth of cuprous oxide nuclei on the 311 face of copper single crystals. (Abstract, Paper #D4, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1459. 1954.

Harris, W. W. & Frances L. Ball 1544b

Growth of oxide layers on nickel single crystals. (Abstract, Paper #B2, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1457. 1954.

Harrison, Arthur P., Jr. & P. Arne Hansen 1545

Lactobacilli from turkeys. J. Bacteriol. 60:543-55. 11/50.

Harrison, Arthur P., Jr. & P. Arne Hansen 1546

A motile lactobacillus from the cecal feces of turkeys. J. Bacteriol. 59:444-6. 3/50.

Hart, Roger G. 1547

Electron-microscopic evidence for the localization of ribonucleic acids in the particles of tobacco mosaic virus. Proc. Nat. Acad. Sci. U. S. 41(5):261-4. 5/55.

Hartman, Philip E., Stuart Mudd, James Hillier & Ernst H. Beutner 1548

Light and electron microscopic studies of *Escherichia colic* phage interactions. III. Persistence of mitochondria and reductase

activity during infection of *Escherichia coli* B with T2 phage. J. Bacteriol. 65(6):706-14. 6/53.

Hartman, Richard E. 1549

The use of protein films as supporting membranes in electron microscopy. (Abstract, Paper #14, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1415. 11/53.

Hartman, R. E., T. D. Green, J. B. Bateman, C. A. Senseney & G. E. Hess 1550

Preparation of uniformly dispersed specimens of particulate matter of electron microscopy. J. Appl. Phys. 24:90-2. 1/52.

Hartman, Richard E. & Roberta S. Hartman 1551

Preparation of self-supporting monomolecular protein films. (Abstract, Paper #19, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26:1394. 1955.

Hartmann, J. Francis 1552

Electron microscopy of myelin sheath in sections of spinal cord. Exptl. Cell Research. 2:126-32. 1952.

Hartmann, J. Francis 1553

Structure of nuclear membrane in sections of central nervous system. (Abstract, Paper #43, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:163-4. 1/52.

Hartmann, J. Francis 1554

An electron optical study of sections of central nervous system. J. Comp. Neurol. 99 (1):201-47. 8/53.

Hartmann, J. Francis 1555

Electron microscopy of motor nerve cells following section of axones. Anat. Record. 118:19-29. 1/54.

Hartmann-Fahnenbrock, Margarete & Walter Kling 1556

Elektronenmikroskopische Untersuchungen an Porzellanoberflächen. Z. wiss. Mikroskop. 61(7/8):439-47. 1954.

Harvey, R. B., F. A. Keidel & S. H. Bauer 1557

Some effects of nozzle design on the diffraction of electrons by gases. J. Appl. Phys. 21:860-74. 9/50.

Haselmann, Helmut 1558

Vergleichende Untersuchungen zur histologischen Gefrieretrocknung. Verh. anat. Ges., Munster, 52 Versamml., 4/6-9/54. :158-66.

Hashimoto, Hatsujiro 1559

Study of thin crystalline films by universal electron diffraction microscope. J. Phys. Soc. Japan. 9(2):150-61. 4-5/54.

Hass, Georg 1560

Preparation, structure, and applications of thin films of silicon monoxide and titanium dioxide. J. Am. Ceram. Soc. 33:353-60. 12/50.

Hass, G. & M. E. McFarland 1561

Aluminum oxide replicas for electron microscopy produced by a two-step process. J. Appl. Phys. 21:435-6. 5/50.

Hass, Georg & H. T. Meryman 1561a

Silicon monoxide and its use in electron microscopy. (Abstract, Paper #A25, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1456. 1954.

Hass, G. & N. W. Scott 1562  
The structure and properties of some metal and metal oxide films. J. phys. radium. 11:374-402. 1950.

Hass, George M., A. L. Brown & A. F. Schick 1563  
Isolation and characterization of human myofibrils. Proc. Inst. Med. Chicago. 20:71-2. 1954.

Hasselbach, Wilhelm 1564  
Elektronenmikroskopische Untersuchungen an Muskelfibrillen bei totaler und partieller Extraktion des L-Myosins. Z. Naturforsch. 8b(9):449-54. 1953.

Hatfield, P., H. W. Emerton & P. E. Wrist 1565  
Resuspension of Dow latex "580G" by ultrasonics. Nature. 170:797-8. 11/8/52.

Hauduroy, P. 1566  
Problèmes actuels de virologie. Paris, Masson, 1954. 157p.

Hausler, F. 1567  
From the hand microtome to the modern thin section microtome. Microtecnic. 8(1):33-8. 1954.

Hausner, Henry H. 1568  
Report on the annual meeting of the Electron Microscope Society of America. Mikroskopie. 5:298-300. 1950.

Hausner, Henry H. 1569  
Report on the annual meeting of the Electron Microscope Society of America. Mikroskopie. 6:54-6. 1951.

Hausmann, H. G. & H. Kehler 1570  
Über einige elektronenmikroskopische Beobachtungen an ultraschall- und wärmege-  
schädigten Bakterien. Optik. 7:321. 4-5/50.

Hausmann, H. G., H. Kehler & A. Koch 1571  
Elektronenmikroskopische Beobachtungen an wärme- und ultraschallgeschädigten Bakterien. Z. Hyg. Infektionskrankh. 134:565-72. 1952.

Heard, Osborne Overton 1572  
The influence of surface forces in microtomy. Anat. Record. 117(4):725-39. 12/53.

Hedbom, A. & O. Snellman 1573  
Isolation and analysis of the large cytoplasmic granules of tissue mast cells. Exptl. Cell Research. 9:148-56. 1955.

Heidenreich, Robert D. 1574  
Electron microscopy. In Physical Methods in Chem. Anal. 1:535-86. New York, Academic Press, 1950.

Heidenreich, R. D. 1575  
Electron transmission through thin metal sections with application to self-recovery in cold worked aluminum. Bell System Tech. J. 30:867-87. 10/51.

Heidenreich, R. D. 1576  
Electron metallography. Bell Labs. Record. 30(3):101-5. 1952.

Heidenreich, R. D. 1577  
Methods in electron microscopy of solids. Rev. Sci. Instr. 23:583-94. 11/52.

Heidenreich, R. D. 1578  
Emission microscopy of metals and alloys. (Abstract, Paper #7, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1414. 11/53.

Heidenreich, R. D. 1579  
Thermionic emission microscopy of metals. Part I. General. Part II. Transformations in plain carbon steels. J. Appl. Phys. Pt. 1. 26:757-65. 6/55. Pt. 2. 26:879-89. 7/55.

Heidenreich, R. D. & E. A. Nesbitt 1580  
Physical structure and magnetic anisotropy of Alnico 5. Part I. J. Appl. Phys. 23:352-65. 3/52.

Heidenreich, R. D. & K. H. Storks 1581  
Note on electron diffraction patterns of CuO. J. Appl. Phys. 26(8):1056. 1955.

Hein, Helmut 1582  
Untersuchungen mit dem Hamagglutinationstest auf Tuberkulose. III. Mitteilung. Elektronenoptische Studien mit sensibilisierten Schaf-Erythrocyten. Z. Hyg. Infektionskrankh. 140:153-62. 1954.

Heise, F. 1583  
Raumbilder im Elektronenmikroskop. Optik. 7:256-60. 10-12/50.

Heise, F. 1584  
Ein Zusatzgerät für Elektronenbeugung mit streifendem Einfall. Optik. 9:139-42. 1952.

Heitz, E. 1585  
Kristallgitterstruktur des Granum junger Chloroplasten von Chlorophytum. Exptl. Cell Research. 7:606-8. 1954.

Heitz, Emil 1586  
Über die Struktur der Chromosomen und Chloroplasten. I. Die Chromosomenstruktur. Nova Acta Leopoldina. 17(122):517-40. 1955.

Hell, A. 1587  
Die Anwendung des Tontrennverfahrens für die Papierkopien elektronenmikroskopischer Aufnahmen. Z. wiss. Mikroskop. 61:276-9. 3/53.

Helmcke, J. G. 1588  
Mitteilung über Versuche mit hochpolymeren Einbettungsmitteln für licht- und elektronenmikroskopische Untersuchungen an biologischen Substanzen. Optik. 7:309. 4-5/50.

Helmcke, J. G. 1589  
Feinbau von Diatomeenschalen in Einzeldarstellungen. Z. wiss. Mikroskop. 60:85-100. 2/51.

Helmcke, J. G. 1590  
Licht- und elektronenmikroskopische Abbildungen biologischer Objekte in hochpolymeren Einbettungsmitteln. Z. wiss. Mikroskop. 60:101-2. 2/51.

Helmcke, J. G. 1591  
Elektronenmikroskopische Untersuchungen der Strukturen verschiedener Membranfilter. Zentr. Bakteriell. u. Parasitenk. Abt. I. Orig. 159(4):308-10. 3/53.

Helmcke, J. G. 1592  
Nachweis des Porensystems einiger Membranfilter.



- Optik. 10:147-9. 1953.
- Helmcke, J. G. 1593  
Elektronenmikroskopische Untersuchungen  
an Membranfiltern nach Filtrationen. Kolloid-  
Z. 135:106-7. 2/54.
- Helmcke, Johann-Gerhard 1594  
Kurzer Bericht über den Stand der Elek-  
tronenmikroskopie. Naturw. Rundschau. 12:498-  
501. 1954.
- Helmcke, J. G. 1595  
Neue Erkenntnisse über den Aufbau von  
Membranfiltern. Kolloid-Z. 135(1):29-43. 1954.
- Helmcke, J. G. 1596  
Theorie und Praxis der elektronenmikros-  
kopischen Stereoaufnahmen. Optik. 11:201-25.  
1954.
- Helmcke, J. G. 1597  
Unregelmässige Strukturen im Feinbau von  
Membranfiltern. Kolloid-Z. 135(2):101-5. 1954.
- Helmcke, J. G. 1598  
Licht- und elektronenmikroskopische Unter-  
suchungen über die Struktur von schnellhärtenden  
Kunststoffen für zahnärztliche Zwecke. Deut.  
zahnärztl. Z. 2(3):1269-77 and (4):1885-90.  
1955.
- Helmcke, J. G. 1599  
Theorie und Praxis der elektronenmikros-  
kopischen Stereoaufnahmen. III. Methoden zur  
Tiefenausmessung elektronenmikroskopischer  
Objekte und Forderungen an ein photogrammet-  
risches Auswertgerät. Optik. 12:253-73. 1955.
- Helmcke, J. G. & B. Jahn 1600  
Elektronenmikroskopische Untersuchungen  
über das Dentin im menschlichen Zahn. Natur-  
wissenschaften. 39:492-3. 1952.
- Helmcke, J. G. & W. Krieger 1601  
Feinbau der Diatomeenschalen in Einzel-  
darstellungen. Z. wiss. Mikroskop. 60:197-202.  
5/51.
- Helmcke, J. G. & W. Krieger 1602  
Feinbau der Diatomeenschalen in Einseldar-  
stellungen. 3. Die Gattung Melosira Ag. Z.  
wiss. Mikroskop. 61(2):83-92. 1952.
- Helmcke, J. G. & W. Krieger 1603  
Neue Erkenntnisse über den Schalenbau von  
Diatomeen. Naturwissenschaften. 39(7):146-9.  
4/52.
- Helmcke, J. G. & H. J. Orthmann 1604  
Fehler bei der Tiefenbestimmung elektronen-  
mikroskopischer Stereoaufnahmen. Optik. 11:  
562-77. 1954.
- Helmcke, J. G. & E. Richter 1605  
Die Elektronenmikroskopie in der Photo-  
grammetrie. Allg. Vermess. Nachr. 6:142-8.  
1951.
- Helmcke, J. G. & H. Richter 1606  
Photogrammetrische Ausmessung elektronen-  
mikroskopischer Stereobilder. Z. wiss.  
Mikroskop. 60:189-96. 5/51.
- Helvey, T. C. 1607  
Insecticidal effect of inert solid diluents.  
Science. 116:631-2. 12/5/52.
- Helwig, G. 1608  
Elektrisch Leitfähigkeit und Struktur aug-  
gestäubter Kadmiumoxydschichten. Z. Physik.  
132:621-42. 1952.
- Helwig, Gerhard 1609  
Elektronenmikroskopische Untersuchung schar-  
fer Schneiden. Z. wiss. Mikroskop. 60:422-4.  
3/52.
- Helwig, G. & König, H. 1610  
Die Kathodenzerstäubung, ein Hilfsmittel  
zur Untersuchung übermikroskopischer Objekte.  
Optik. 7:294-302. 10-12/50.
- Hendey, N. Ingram 1611  
Note on the Plymouth "Nitzschia" culture.  
J. Marine Biol. Assoc. United Kingdom. 33:335-  
9. 1954.
- Hendey, Ingram N., D. H. Cushing & G. W. Ripley 1612  
III. Electron microscope studies  
of diatoms. J. Roy. Microscop. Soc. 74  
(1):22-34. 6/54.
- Henke, Burton L. & Jesse DuMond 1613  
Submicroscopic structure determination by  
long wave length X-ray diffraction. J. Appl.  
Phys. 26:903-17. 1955.
- Henle, Werner, Oscar C. Liu & Norman B. 1614  
Finter  
Studies on host-virus interactions in the  
chick embryo-influenza virus system. IX. The  
period of liberation of virus from infected  
cells. J. Exptl. Med. 100(1):53-70. 1954.
- Henneberg, G. & B. Haagen-Crodel 1615  
Elektronenmikroskopische Darstellung von  
Bakterien in Schnitten von Membranfiltern.  
Zentr. Bakteriöl. Parasitenk. Abt. I. Orig. 161  
(4/5):314-23. 1954.
- Hennessen, Walter 1616  
Über die Lokalisation der Bakteriophagen.  
Z. wiss. Mikroskop. 60:172-80. 5/51.
- Hennessen, Walter 1617  
Veränderungen an gramnegativen Stäbchen  
unter Mangelbedingungen. Z. Hyg. Infektions-  
krankh. 133:561-8. 1952.
- Henson, W. A., D. A. Taber & E. B. Bradford 1618  
Mechanism of film formation of latex paint.  
Industr. Engng. Chem. 45:735-9. 4/53.
- Hepton, C. E. L., R. D. Preston & G. W. 1619  
Ripley  
Electron microscopic observations on the  
structure of the sieve plates in Cucurbita.  
Nature. 176:868-70. 11/5/55.
- Herčík, Ferdinand 1620  
Some observations about the morphology of  
bacteriophage. Experientia. 6:64-6. 2/50.
- Herčík, Ferdinand 1621  
Vývojová stadia bakteriofaga. (in Czech)  
Lékařské listy. 5:433-5. 1950.
- Herčík, Ferdinand 1622  
Structure of the phage body. (in Czech)  
Časopis lékařu českých. 90:925-8. 1951.
- Herciík, F. 1623  
The electron microscopy of bacteriophage.  
(in Czech) Vesmir. 31:3-4. 1952.



- Herčík, Ferdinand 1624  
Vliv povrchově aktivních látek na tvorbu bakteriofága. (Influence of surface active molecules on the origin of bacteriophage.) *Ceskoslov. biol.* 1(3):154-6. 1952.
- Herčík, Ferdinand 1625  
Makromolekulární struktura Bakteriiofága. *Práce Moravskoslezské akad. věd přírodních.* 25(18):461-72. 1953.
- Herčík, Ferdinand 1626  
Electron microscopy of phage *E. coli* development inside the host cell. *Biochim. et Biophys. Acta.* 18:1-12. 9/55.
- Herčík, F., O. Handschuhová & Z. Hradečná 1627  
Electron microscope of non cellular forms in whooping cough. (in Czech) *Lékařské listy.* 9:197-201. 1954.
- Herčík, F. & Z. Hradečná 1628  
Electron microscopy of non-cellular forms in hay infusion. (in Czech) *Ceskoslov. biol.* 1:172-8. 1952.
- Herčík, Ferdinand & Zdenka Hradečná 1629  
Elektronová mikroskopie nebuněčných forem ze senného nálevu. *Ceskoslov. biol.* 1(3):157-61. 1952.
- Herčík, F. & Z. Hradečná 1630  
Phagen-Bakteriolyse ohne Vermehrung der Phagen. *Ceskoslov. biol.* 1:85-90. 1952.
- Herčík, F., Z. Hradečná & O. Handschuhová 1631  
Elektronenmikroskopie gewisser aus Bakterienzellen hervorstwachsender Gebilde. *Ceskoslov. biol.* 3:279-85. 1954.
- Hermans, P. H. 1632  
Examination of rayon cross sections with the electron microscope in conjunction with supplementary light-microscopic observations. *Textile Research J.* 20:105-8. 2/50.
- Herrath, E. von & N. Dettmer 1633  
Elektronenmikroskopische Untersuchungen an Gitterfasern. *Z. wiss. Mikroskop.* 60:282-9. 9/51.
- Herriott, Roger M. & James L. Barlow 1634  
Preparation, purification, and properties of *E. coli* virus T<sub>2</sub>. *J. Gen. Physiol.* 36(1):17-28. 9/20/52.
- Herrman, Francis J. 1635  
Microscope controls production. *Electronic Equipment.* 2:12-3. 5/54.
- Herrmann, O. & H. Pfisterer 1636  
Zur Reduktion von WO<sub>3</sub>. Der verlauf des Reduktionsvorganges von WO<sub>3</sub> unter elektronenmikroskopischer Betrachtung. *Metall.* 8(19/20):759-64. 1954.
- Herskowitz, Irwin H. 1637  
Electron microscopy of salivary gland chromosomes of *Drosophila*, using the grid-smear technique. *J. Heredity.* 43:226-32. 9-10/52.
- Herzberg, K. & A. Kleinschmidt 1638  
Elektronenmikroskopische Untersuchungen am Kanarienvirus. *Z. Hyg. Infektionskrankh.* 139:545-60. 6/54.
- Herzberg, K., A. Kleinschmidt, K. Requardt 1639  
& W. Vogel  
Elektronenmikroskopische Untersuchungen am Kanarienvirus. *Arch. ges. Virusforsch.* 6(4):283-97. 1955.
- Hess, Arthur 1640  
The fine structure of young and old spinal ganglia. *Anat. Record.* 123(4):399-424. 12/55.
- Hess, Arthur & Albert I. Lansing 1641  
The fine structure of peripheral nerve fibres. *Anat. Record.* 117(2):175-200. 10/53.
- Hess, Kurt 1642  
Mehl unter dem Elektronenmikroskop; neue Erkenntnisse über die Ursachen des Teigbildungsvermögens. *Umschau.* 55:114-6. 1955.
- Hess, K. & H. Mahl 1643  
Elektronenmikroskopische Beobachtungen an Mehl und Mehlpräparaten von Weizen. *Mikroskopie.* 9(1/4):81-8. 1954.
- Hess, Kurt & Hans Mahl 1644  
Elektronenoptischer Nachweis grosser perioden bei Kunststoff- und Cellulosefasern. *Naturwissenschaften.* 41(4):86. 1954.
- Heston, B. O. & P. R. Cutter 1645  
Molecular diffraction attachment for RCA microscope. *Rev. Sci. Instr.* 21:608-12. 7/50.
- Hibi, Tadatoshi 1646  
Electronmicroscopic observation of photographic emulsion. I. Appearance of the "Halos" in electron micrographs. *Sci. Repts. Research Insts.. Tohoku Univ. A.* 4(5):545-52. 1952.
- Hibi, Tadatosi 1647  
A new device for metallic shadow-casting. *Rev. Sci. Instr.* 23:383-5. 7/52.
- Hibi, Tadatosi 1648  
On the metallic shadow-casting using a nozzle system. *J. Appl. Phys.* 23:957-63. 9/52.
- Hibi, Tadatosi 1649  
Electronmicroscopic observation of the change of forms of the coated oxide particles of the oxide cathode by the activation. *Sci. Repts. Research Insts. Tohoku Univ. A.* 5(6):573-80. 1953.
- Hibi, Tadatosi 1650  
Microphotometric analysis of Fresnel fringe due to the electron beam appearing at the edge of MgO smokes. *J. Electronmicroscopy.* 3(1):15-7. 1955.
- Hibi, Tadatosi, K. Kambe & G. Honjo 1651  
Interference fringes in electron micrographs of magnesium oxide. *J. Phys. Soc. Japane.* 10(1):35-46. 1/55.
- Hibi, Tadatosi & Takuji Ogawa 1652  
Crystal habit of magnesium oxide smokes. *J. Phys. Soc. Japan.* 9(4):627-35. 7-8/54.
- Hibi, Tadatosi & Shuichi Takahashi 1653  
On a slit for objective electron lens. *Sci. Repts. Research Insts. Tohoku Univ. A.* 6(5):511-6. 10/54.
- Hibi, Tadatosi, Shoichi Takahashi & Keiji Yada 1654  
Objective aperture and resolving power of electron microscope. *J. Electronmicroscopy.* 1(1):23-7. 1953.

- Hibi, Tadatosi & K. Yada 1655  
Electronmicroscopic observation of imperfect crystal of metallic oxide smokes. J. Electronmicroscopy. 2(1):45-8. 1954.
- Hibi, T. & K. Yada 1656  
High-resolution replicas and their application. J. Appl. Phys. 25(6):712-9. 6/54.
- Hiesinger, L. & H. König. 1657  
Optik und Struktur kathodenzerstaubter Schichten unter besonderer Berücksichtigung der Reaktion mit dem Restgas. In Festschr. W. C. Heraeus, GmbH. :376-92. Hanau, 4/1/51.
- Higashi, Noboru 1658  
Electron microscopy in Japan. (Abstract, Paper #34, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:114. 1951.
- Higashi, N. & M. Toduda 1659  
Electron micrographic characters of the mumps virus and its environment. Virus Osaka. 4:64-74. 1954.
- Highberger, J. H., J. Gross & F. O. Schmitt 1660  
Electron microscope observations of certain fibrous structures obtained from connective tissue extracts. J. Am. Chem. Soc. 72:3321-2. 7/50.
- Highberger, John H., Jerome Gross & Francis O. Schmitt 1661  
The interaction of mucoprotein with soluble collagen; an electron microscope study. Proc. Natl. Acad. Sci. U. S. 37(5):286-91. 5/51.
- Higuchi, Tanehiko 1662  
Experimental studies on the egg-jelly of Japanese Palolo (*Tylorrhynchus heterochaetus*). 1. On the egg-jelly after fertilization. 2. On the effects of the super-sonics and heat upon the egg jelly. 3. On the effect of Hyaluronidase upon the egg-jelly. Zikken Seibutsugaku Ho, Japan. 5(1):6-39. 1955.
- Hilleman, M. R., A. J. Tousimis & J. H. Werner 1663  
Biophysical characterization of the RI (RI-67) viruses. Proc. Soc. Exptl. Biol. Med. 89:587-93. 1955.
- Hillier, James 1664  
Electron microscopy. In Biophysical Research Methods. F. M. Über, ed. :381-416. New York, Interscience Publishers, 1950.
- Hillier, James 1665  
A removable intermediate lens for the RCA model EMU. (Abstract, Paper #45, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:71. 1950.
- Hillier, J. 1666  
A removable intermediate lens for extending the magnification range of an electron microscope. J. Appl. Phys. 21:785-90. 8/50.
- Hillier, James 1667  
Further developments in the electron microscopic study of tissue sections. (Abstract, Paper #37, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:114. 1951.

- Hillier, James 1668  
An objective for use in the electron microscopy of ultrathin sections. J. Appl. Phys. 22:135-7. 2/51.
- Hillier, James 1669  
On the sharpening of microtome knives for ultrathin sectioning. (Abstract, Paper #40, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:115. 1951.
- Hillier, James 1670  
On the sharpening of microtome knives for ultra-thin sectioning. Rev. Sci. Instr. 22:185-8. 3/51.
- Hillier, James 1671  
Ultra-thin sections for the electron microscopy of tissues. Trans. N. Y. Acad. Sci. 13(4):128-9. 2/51.
- Hillier, James 1672  
Experimental improvements in the performance of an electron microscope. (Abstract, Paper #6, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:157. 1/52.
- Hillier, James 1673  
The fine structure of carbon black. (Abstract, Paper #25, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:159. 1/52.
- Hillier, James 1674  
Some critical studies on the contrast of the resolving limit of the electron microscope. (Abstract, Paper #7, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:157. 1/52.
- Hillier, J. 1675  
Refined sectioning techniques for the electron microscope. 1st Int. Cong. Electron Microsc., Paris, 9/50. Proc. :592-9. Paris, Ed. Rev. Optique, 1953.
- Hillier, James 1676  
New interference phenomena in the electron microscopic images of plate-like crystals. Nat. Bur. Standards U.S. Circ. 527:413-6. 3/54.
- Hillier, J. & G. B. Chapman 1677  
A modified simple ultramicrotome. (Abstract, Paper #8, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1415. 11/53.
- Hillier, James & George Chapman 1678  
Some developments in ultra-thin sectioning techniques. (Abstract, Paper #9, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:112. 1953.
- Hillier, J. & G. B. Chapman 1679  
Ultra-thin sections of bacterial cells. (Abstract, Paper #64, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1423. 11/53.
- Hillier, James & S. G. Ellis 1680  
An experimental study of image contrast at 50, 100, and 150 kv. (Abstract, Paper #7, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:110. 1951.



- Hillier, James & Henry Froula 1681  
On the testing of electron microscope objectives. (Abstract, Paper #4, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:66. 1950.
- Hillier, James & Mark E. Gettner 1682  
Improved ultra-thin sectioning of tissue for electron microscopy. J. Appl. Phys. 21:889-95. 9/50.
- Hillier, James & Mark E. Gettner 1683  
Sectioning of tissue for electron microscopy. Science. 112:520-3. 11/3/50.
- Hillier, James & Mark Gettner 1684  
Some refinements of the rotary microtome modified for ultrathin sectioning. (Abstract, Paper #13, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:67. 1950.
- Hillier, James & Joseph F. Hoffman 1685  
On the ultrastructure of the plasma membrane as determined by the electron microscope. J. Cellular Comp. Physiol. 42(2):203-48. 10/53.
- Hillier, J., S. Mudd & A. G. Smith 1686  
On the "fixation" of electron microscope specimens by electron bombardment. (Abstract, Paper #29, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:114. 1951.
- Hillier, James, S. Mudd, A. G. Smith & E. H. Beutner 1687  
The "fixation" of electron microscopic specimens by the electron beam. J. Bacteriol. 60:641-54. 1950.
- Hillier, J. & E. G. Ramberg 1688  
Kontrasterhöhung in der Elektronenmikroskopie. Z. angew. Physik. 2:273-8. 7/50.
- Hillier, J. & E. G. Ramberg 1689  
Some theoretical and practical considerations of image contrast in the electron microscope. Proc. Conf. of Electron Micros. Delft, 7/49. Proc. The Hague, Nijhoff, 1950. :42-8.
- Hines, M. E., G. W. Hoffman & J. A. Saloom 1690  
Positive-ion drainage in magnetically focused electron beams. J. Appl. Phys. 26:1157-62. 9/55.
- Hirai, Yoshiaki 1691  
Electron microscopic studies on the Spermatozoa. (in Japanese) J. Jûzen Med. Soc. 57:2046-60. 1955.
- Hirsch, P. B., A. Kelly & J. W. Menter 1692  
The structure of cold worked gold. I. A study by electron diffraction. Proc. Phys. Soc. London. 68B:1132-45. 1955.
- Hnatko, Stephen I. 1693  
The isolation of bacteriophages for mycobacteria with reference to phage typing of the genus. Can. J. Med. Sci. 31:462-73. 12/53.
- Hocart, Raymond & Agnès Oberlin 1694  
Épitaxie des microcristaux d'or sur le graphite. Étude au microscope électronique et par diffraction électronique. Compt. rend. acad. sci. 239:1228-30. 1954.

- Hocart, Raymond & Agnès Oberlin 1695  
Épitaxies étudiées au microscope électronique et par diffraction électronique. Mem. services chim. état Par. 39(2):119-27. 1954.
- Hocart, Raymond, Agnès Oberlin & Albert Siat 1696  
Épitaxies de l'anhydride molybdique sur la molybdenite et sur le graphite. Re-marques structurales. Compt. rend. acad. sci. 239:292-4. 7/19/54.
- Hocart, Raymond, Georges Roult & Agnès Oberlin 1697  
Decroissements par strates d'une face (001) de chlorure de sodium naturel et artificiel. Observations au microscope électronique. Compt. rend. acad. sci. 240:2245-7. 6/6/55.
- Hock, Charles W. 1698  
Degradation of cellulose as revealed microscopically. Textile Research J. 20:141-51. 3/50.
- Hock, Charles W. 1699  
The fibrillate structure of natural cellulose. J. Polymer Sci. 8:425-34. 4/52.
- Hock, Charles W. 1700  
Studies of rosin sizing by means of autoradiography and electron microscopy. Tappi. 37:427-30. 1954.
- Hock, Charles W. 1701  
Visual observations of the behavior of soil particles in dilute aqueous soap systems. Textile Research J. 25(8):682-5. 1955.
- Hodge, A. J. 1702  
A new type of periodic structure obtained by reconstitution of paramyosin from acid solutions. Proc. Natl. Acad. Sci. U. S. 38(10):850-5. 10/52.
- Hodge, A. J. 1703  
A new type of periodic structure obtained by precipitation of paramyosin from acid solutions. (Abstract, Paper #33, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:115-6. 1953.
- Hodge, A. J. 1704  
Studies on the structure of muscle. III. Phase contrast and electron microscopy of dipteran flight muscle. J. Biophys. Biochem. Cytol. 1(4):361-80. 7/25/55.
- Hodge, A. J., A. B. Hope, J. D. McLean & F. V. Mercer 1705  
Fine structure of Nitella chloroplasts. (Abstract, Paper #H9, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1464. 1954.
- Hodge, A. J., H. E. Huxley & D. Spiro 1706  
A simple new microtome for ultra-thin sectioning. (Abstract, Paper #10, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1415. 11/53.
- Hodge, Alan J., Hugh E. Huxley & David Spiro 1707  
Electron microscope studies on ultrathin sections of muscle. J. Exptl. Med. 99:201-6. 2/54.
- Hodge, Alan J., Hugh E. Huxley & David Spiro 1708



A simple new microtome for ultrathin sectioning. J. Histochem. and Cytochem. 2(1): 54-61. 1/54.

Hodge, A. J., J. D. McLean & F. V. Mercer 1709  
Chloroplast development and a mechanism of lamellar growth. (Abstract, Paper #34, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26:1397. 1955.

Hodge, A. J., J. D. McLean & F. V. Mercer 1710  
Ultrastructure of maize chloroplasts. (Abstract, Paper #33, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26:1397. 1955.

Hodge, A. J., J. D. McLean & F.V. Mercer 1711  
Ultrastructure of the lamellae and grana in the chloroplasts of Zea mays L. J. Biophys. Biochem. Cytol. 1(6):605-14. 1955.

Hodge, & A. B. Wardrop 1712  
An electron-microscopic investigation of the cell-wall organization of conifer tracheids. Nature. 165:272-3. 2/18/50.

Hodge, A. J. & A. B. Wardrop 1713  
An electron microscopic investigation of the cell wall organization of conifer tracheids and conifer cambium. Australian J. Sci. Research. Ser. B. 3(3):265-9. 1950.

Hoegen, Klaus 1714  
Elektronenmikroskopische Untersuchungen an Zilien und Geisseln. Verh. anat. Ges., Mainz 51 Versamml., 4/14-7/53. :252-6.

Hoegen, Klaus 1715  
Beitrag zur Vorbereitung tierischer Gewebe- und Zellstrukturen für elektronenmikroskopische Untersuchungen. Mikroskopie. 9(5/6):179-85. 1954.

Hoerlin, H. & F. A. Hamm 1716  
Electron microscopical studies of the latent image obtained by exposures to alpha particles, X-rays, and light. J. Appl. Phys. 24:1514-9. 12/53.

Hofer, L.J.E., E. Sterling & J. T. McCartney 1717  
Structure of the carbon deposited from carbon monoxide on iron, cobalt and nickel. J. Phys. Chem. 59:1153-5. 11/55.

Hofmann, Ulrich 1718  
Halloysit im Börtewitzer Kaolin. Sprechsaal. 84(20):413-4. 1951.

Hofmann, Ulrich 1719  
Die Gestalt der Tonmineralteilchen im Elektronen-Mikroskop. Jahrb. Keramik Glas. Email. 37:313-7. 1951-2.

Hofmann, U. 1720  
Neue Erkenntnisse auf dem Gebiete der Thixotropie, insbesondere bei tonhaltigen Gelen. Kolloid-Z. 125(2):86-99. 1952.

Hofmann, U. 1721  
Füllstoffe und keramische Rohmaterialien. Rapport Europées Congrès Toeg. Em. Gent, 4/7-10/54. :161-72.

Hofmann, Ulrich & Th. Nemetschek 1722  
Kleinwinkelstreuung an Tonmineralien. Kolloid-Z. 130:83-9. 2/53.

Hofmann, U., Th. Nemetschek & W. Grassmann 1723  
Über die Querstreifung von Kollagenfibrillen und ihre Veränderung im Elektronenmikroskop. Z. Naturforsch. 7b:509-13. 9-10/52.

Hofmann, U., Th. Nemetschek & W. Grassmann 1724  
Neue Ergebnisse an Kollagenfibrillen. Rapport Europées Congrès Toeg. Em. 151-5. Gent, 4/7-10/54. :151-5.

Hofmann, Ulrich & G. Ohlerich 1725  
Oberflächenchemie des Kohlenstoffs. Z. angew. Chem. 62:16-21. 1/50.

Hoge, A. R. & P. Souza Santos 1726  
Submicroscopic structure of "stratum corneum" of snakes. Science. 118:410-1. 10/9/53.

Holbert, Pauline E. & Wanda K. Farr 1727  
Electron microscopy of cotton fiber constituents. (Abstract, Paper #46, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:115. 1951.

Holland, L. 1728  
The production, properties, and uses of thin films condensed in vacuo. Vacuum. 1(1):23-36. 1951.

Holland, L. & G. Siddal 1729  
The properties of some reactively sputtered metal oxide films. Vacuum. 3(4):375-91. 1953.

Holz, J. 1730  
Elektronenmikroskopische Untersuchungen über die Wirksamkeit verschiedener Waschmittel auf die Oocysten einiger Coccidienarten. Tierräzt. Umschau. 23/24:415-26. 1954.

Holz, J. 1731  
Über die oberflächliche Struktur der Coccidien-Oocysten. Tierräzt. Umschau. 9/10: 157-62. 1954.

Holz, J. 1732  
Zellzuchtung, Mikrokinematographie und Elektronenmikroskopie als parasitologische Arbeitsmethoden. Berlin u. Münch. tierräzt. Wochschr. 5:73-7. 1954.

Holz, Joachim & Gottfried Bringmann 1733  
Elektronenmikroskopische Befunde zur Aureomycin-Therapie der Toxoplasmose. Z. Hyg. Infektionskrankh. 139(5):393-8. 1954.

Honjo, Goro & Kazuhiro Mihama 1734  
A study of clay minerals by electron-diffraction diagrams due to individual crystallites. Acta Cryst. 7(6-7):511-3. 1954.

Honjo, Goro, Shizuo Miyake & Kazuhiro Mihama 1735  
Crystalline shape of zinc oxide smoke. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :324-33. Paris, Ed. Rev. Optique, 1953.

Hossack, J. & G. M. Wyburn 1736  
Electron microscopic studies of spinal ganglion cells. Proc. Roy Soc. Edinburgh. 65B:239-50. 1954.

Hoster, Miriam S., Quentin Van Winkle, Jacob G. Rabatin & Herman A. Hoster 1737  
Macromolecular particles obtained from human neoplastic and non-neoplastic lymph nodes. II. Electron microscope study. Cancer Research. 12:69-74. 1/52.

- Hostettler, H. 1738  
Connaissance actuelles sur la structure  
submicroscopique des proteines du lait. X  
Congr. Intern. Inds. Agri. & Aliment., Madrid,  
1954. 8p.
- Hostettler, H. & K. Imhof 1739  
Elektronenoptische Untersuchungen über  
den Feinbau der Milch. Milchwissenschaft.  
6:351-4, and 400-2. 1951.
- Hostettler, H. & K. Imhof 1740  
Elektronenoptische Untersuchungen über die  
submikroskopische Struktur von Milch und Milch-  
erzeugnissen. Landwirtsch. Jahrb. Schweiz. 66:  
308-80. 1952.
- Hostettler, H. & K. Imhof 1741  
Der einfluss der Homogenisation der Milch  
auf die submikroskopische Struktur der Casein-  
partikel. Verhandl. 13 Intern. Milchwirtschafts-  
kongr., Haag. 2:382-5. 1953.
- Hostettler, H. & K. Imhof 1742  
Die submikroskopische Struktur von rekon-  
stituierter Kondensmilch und Trockenmilch.  
Verhandl. 13 Intern. Milchwirtschaftskongr.,  
Haag. 2:423-6. 1953.
- Hostettler, H. & K. Imhof 1743  
Beiträge zur Struktur der Labgallerte und  
des Käsesteiges. 1. Die Grundlage für die Bildung  
der Labgallerte. Schweiz. Milchz., No. 85.  
19 p. 1955.
- Hostettler, Hermann, Jehuda Stein & K. Imhof 1744  
Die Bestimmung des Gerinnungspunktes  
bei der Labgerinnung der Milch. Milch-  
wissenschaft. 6:196-205. 1955.
- Hotchin, J. E. 1745  
The purification and electron micro-  
scopical examination of the structure of  
staphylococcal bacteriophage K. J. Gen. Micro-  
biol. 10(2):250-60. 4/54.
- Hotchin, J. E., I. M. Dawson & W. J. Elford 1746  
The use of empty bacterial membranes  
in the study of the adsorption of Staphyloco-  
ccus K phage upon its host. Brit. J. Exptl.  
Pathol. 33:177-82. 4/52.
- Hotten, B. W. 1747  
Fundamental knowledge of lubricating  
grease structure. Lubrication Eng. 8:244-6.  
10/52.
- Hotten, B. W. 1748  
Optical studies of lubricating grease.  
structure. Inst. Spokesman, Nat. Lubricat-  
ing Grease Inst. 19:14-6. 1955.
- Hotten, B. W. & D. H. Birdsall 1749  
Fine structure and rheological properties  
of lithium soap-oil dispersions. J. Colloid  
Sci. 7(3):283-94. 6/52.
- Hottle, George A., Councilman Morgan,  
James H. Peers & Ralph W. G. Wyckoff 1750  
The electron microscopy of rabies inclu-  
sion (Negri) bodies. Proc. Soc. Exptl. Biol.  
Med. 77:721-3. 8/51.
- Hotz, Gerhart & Werner Schäfer 1751  
Ultrahistologische Studie über die Vermeh-  
rung des Virus der klassischen Geflügelpest.  
Z. Naturforsch. 10b(1):1-5. 1955.
- Houck, Charles & E. W. Dempsey 1752  
Cytological staining procedures applicable  
to methacrylate-embedded tissues. Stain  
Technol. 29(4):207-11. 1954.
- Houwink, A. L. 1753  
Some observations on bacteria growing on  
surfaces. Conf. of Electron Micros., Delft,  
7/49. Proc. The Hague, Nijhoff, 1950. :141-3.
- Houwink, A. L. 1754  
Caulobacter versus Bacillus spec. div.  
Nature. 168:654. 10/13/51.
- Houwink, A. L. 1755  
An electron microscope study of the flagel-  
lum of *Euglena gracilis*. Koninkl. Ned. Akad.  
Wetenschap. Proc. 54:132-7. 1951.
- Houwink, A. L. 1756  
Contamination of electron microscope pre-  
parations. Experientia. 8:385. 10/15/52.
- Houwink, A. L. 1757  
Die Pellikularschuppen und die Geissel der  
*Physomonas vestita* Stokes. Z. wiss. Mikroskop.  
60:402-4. 3/52.
- Houwink, A. L. 1758  
A macromolecular mono-layer in the cell  
wall of *Spirillum* spec. Biochim. et Biophys.  
Acta. 10:360-6. 3/53.
- Houwink, A. L. 1759  
Caulobacter - Its morphogenesis, taxonomy,  
and parasitism. Antonie van Leeuwenhoek. (J.  
Microbiol. Serol. 21(1):49-53. 1955.
- Houwink, A. L. & Wouter van Itersen 1760  
Electron microscopical observations on  
bacterial cytology. II. A study on flagella-  
tion. Biochim. et Biophys. Acta. 5:10-44. 3/50.
- Houwink, A. L. & D. R. Kreger 1761  
Observations on the cell wall of yeasts.  
An electron microscope and X-ray diffraction  
study. Antonie van Leeuwenhoek. (J. Microbiol.  
Serol.) 19:1-24. 1953.
- Houwink, A. L. & P. A. Roelofsen 1762  
Fibrillar architecture of growing plant  
cell walls. Acta. Botan. Neerl. 3(3):385-95.  
1954.
- Hovanitz, William 1763  
Chromosome structure. I. Analysis of spiral  
or nodule fragmentations. Wasmann J. Biol.  
11(1):1-22. 1953.
- Hovanitz, William 1764  
Chromosome structure. II. Chromosomes of  
calf thymus. Wasmann J. Biol. 11(3):257-66. 1953.
- Hovis, W. A., G. O. Gey & F. B. Bang 1765  
A method of obtaining cultured cells from  
roller tubes for electron microscopy. (Abstract,  
Paper #26, Electron Microscope Society of America  
Meeting, Detroit, Michigan, 9/14-6/50.) J.  
Appl. Phys. 22:113. 1951.
- Howard, Lorn L. 1766  
Sudden change in the arrangement of crystal-  
lites in thin evaporated bismuth films. J.  
Appl. Phys. 25(1):125-7. 1/54.
- Howatson, A. F. 1767  
Particulate material in extracts of normal



- and of tumour tissue: An electron microscope study. *Brit. J. Cancer.* 7:393-400. 1953.
- Howatson, A. F. & A. W. Ham 1768  
Electron microscope comparison of the fine structure of some normal and neoplastic cells. *Am. Assoc. Cancer Res. Proc.* 2:25. 1955.
- Howatson, A. F. & A. W. Ham 1769  
Electron microscope study of sections of two rat liver tumors. *Cancer Research.* 15(1):62-9. 1/55.
- Howatson, A. F. & P. R. Price 1770  
An expansion head for thin section cutting. *J. Sci. Instr.* 30:254. 7/53.
- Hoyle, L., R. Reed & W. T. Astbury 1771  
Electron microscope studies of the structure of the influenza virus. *Nature.* 171:256. 2/7/53.
- Hsiao, C. C. & J. A. Sauer 1772  
On crazing of linear high polymers. *J. Appl. Phys.* 21(11):1071-83. 11/50.
- Huber, L. & Ch. Rouiller 1773  
Les fibrilles collagènes de l'os. *Experientia.* 7:338. 9/51.
- Huber, Walter 1774  
Recherches sur la structure submicroscopique de la membrane péritrophique de l'intestin moyen chez quelques insectes. *Arch. Anat. Strasb.* 33:1-20. 1950.
- Huber, Walter 1775  
Die submikroskopische Struktur der peritrophischen Membran aus dem Mitteldarm von *Geotrupes silvaticus* (Col.) Mitt. schwiez. entomol. Ges. 27(3):277-9. 1954.
- Huber, Walter & Charles Haasser 1776  
Electron-microscope study of the peritrophic membrane in *Dixippus morosus*. *Nature.* 165:397. 3/11/50.
- Huertos, M. R., E. Küster & W. Flaig 1777  
Licht- und elektronenmikroskopische Untersuchungen an L-Formen bei *Pseudomonas fluorescens*, *B. proteus* und *Rhizobium*. *Zentr. Bakteriöl. Parasitenk. Abt. I. Orig.* 162:24-31. 1955.
- Hug, O. & W. Lippert 1778  
Grenzschichten animalischer Zellen im Elektronenmikroskop. *Arch. exp. Pathol. Pharmacol.* 213:395-401. 1951.
- Hug, O., W. Lippert & H. Fischer 1779  
Das elektronenoptische Bild der Salmoniden-spermatozoen. *Protoplasma.* 42(1):94-9. 1953.
- Hug, O., W. Lippert & P. Moser 1780  
Morphologische Veränderungen der roten Blutzellen bei der Hypotoniehaemolyse. *Verhandl. deut. Ges. inn. Med.* 57Kongr.:262-4. 1951.
- Hug, O., W. Lippert & P. Moser 1781  
Morphologische Veränderungen der Erythrocyten bei der Hypotoniehaemolyse. *Arch. exp. Pathol. Pharmacol.* 214:308-15. 1952.
- Hughes, Kenneth M. 1782  
A demonstration of the nature of polyhedra using alkaline solutions. *J. Bacteriol.* 59:189-95. 1950.

- Hughes, Kenneth M. 1783  
Development of the inclusion bodies of a granulosis virus. *J. Bacteriol.* 64:375-80. 9/52.
- Hughes, Kenneth M. 1784  
The development of an insect virus within cells of its host. *Hilgardia.* 22(12):391-406. 1953.
- Hughes, Kenneth M. & C. G. Thompson 1785  
A granulosis of the omnivorous looper, *Sabulodes caberata* Guenée. *J. Infectious Diseases.* 89:173-9. 1951.
- Huguenin, E. L. 1786  
Observation des structures cristallines au microscope électronique à photoémission. *Compt. rend. acad. sci.* 241:307-9. 1955.
- Hunter, M. S. & F. Keller 1787  
Techniques used in electron microscopy of aluminum alloys. In *Symposium on Techniques for Electron Metallography*. Special Technical Publication #155 Am. Soc. Testing Materials. :3-13. 1953.
- Huth, Erich & Curt Schneider 1788  
Die elektronenoptische Darstellung von normalen Leukocyten und Zellen akuter Leukosen im Kindesalter. *Z. Kinderheilk.* 75:358-64. 1954.
- Huxley, H. E. 1789  
Electron microscope studies of the organization of the filaments in striated muscle. *Biochim. et Biophys. Acta.* 12:387-94. 1953.
- Huxley, H. E. 1790  
The organization of the filaments of striated muscle. (Abstract, Paper #51, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) *J. Appl. Phys.* 24:1421. 11/53.
- Huxley, Hugh & Jean Hanson 1791  
Changes in the cross-striations of muscle during contraction and stretch in their structural interpretation. *Nature.* 173:971-86. 5/22/54.
- Hyam, E. D. & J. Nutting 1792  
A method for the electron and optical microscopic examination of identical areas. *Brit. J. Appl. Phys.* 3:173-6. 6/52.
- Imhof, Kurt 1793  
Elektronenmikroskopische Untersuchungen über das Casein der Milch. *Landwirtsch. Jahrb. Schweiz.* 66(1):309-80. 1952.
- Induni, G. 1794  
La cathode froide et ses applications. "Les techniques recentes en microscopie électronique et corpusculaire." Toulouse, 4/4-8/55. :189-97. Colloque intern. centre nat'l. recherche sci., Paris.
- Inoue, Atsushi & Riitsu Takagi 1795  
Examination of tracer method with electron microscope. *J. mech. Lab., Tokyo.* 4(2):47-9. 1950.
- Insley, Herbert & Van Derck Fréchette 1796  
Microscopy of ceramics and cements. New York, Academic Press, 1955.
- International Congress of Electron Microscopy  
Proceedings, First Congress. Paris, 1797  
Editions de la revue d'Optique, 1953.



- Irving, E. A. & S. G. Tomlin 1798  
Collagen, reticulum and their argyrophilic properties. *Proc. Roy Soc., London.* 142B:113-25. 1954.
- Isaacs, A. & Heather B. Donald 1799  
Particle counts of haemagglutinating viruses. *J. Gen. Microbiol.* 12(2):241-7. 1955.
- Ishibashi, Masayoshi, Eiji Suito, Kazuyoshi Takiyama & Eiichi Sekido 1800  
Morphology of organometallic precipitates by electron microscope. *Bull. Inst. Chem. Research, Kyoto Univ.* 31(5):365-7. 1953.
- Issidorides, M., H. W. Beams, A. W. Sedar & T. C. Evans 1801  
Electron micrographs of the nematocysts of hydra. *Proc. Iowa Acad. Sci.* 59:461-6. 1952.
- Ito, Kazuo & Tsugio Ito 1802  
Correction of lens defects in three-stage electron microscope. *J. Electronmicroscopy.* 3(1):12-6. 1953.
- Ito, Kazuo & Tsugio Ito 1803  
Crystal interference phenomena in three-stage electronmicroscopy. *J. Electron-microscopy.* 1(1):18-23. 1953.
- Ito, Kazuo, T. Ito & M. Watanabe 1804  
An improved reflection type electron microscope. *J. Electronmicroscopy.* 2(1):10-14. 1954.
- Ito, Tadao 1805  
Cytological studies of tubercle bacilli with electronmicroscopical considerations. (in Japanese) *Kekkaku.* 28:400-7. 1953.
- Iversen, Kurt, G. Asboe-Hansen & F. Carlsen 1806  
Electron microscopy of certain muscle lesions in patients with pituitary-thyroid disorders. *Acta Endocrinol.* 14:177-80. 1953.
- Iverson, F. K. & A. L. Ellis 1807  
A method of lineal analysis with the electron microscope. (Abstract, Paper #2, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) *J. Appl. Phys.* 22:110. 1951.
- Iwao, Shuichi, Hiroshi, Akabori, Mitsue Koizumi & Hideo Minatu 1808  
Electron micrograph of some silica rocks with special reference to the micropores with fluid inclusions. *J. Japan. Assoc. Mineral., Petrol, Econ. Geol.* 37:167-78. 1953.
- Jackson, D. S. & J. H. Fessler 1809  
Isolation and properties of a collagen soluble in salt solution at neutral pH. *Nature.* 176:69. 7/9/55.
- Jackson, S. Fitton 1810  
Fibrogenesis in connective tissues. *Nature.* 173:950-1. 5/15/54.
- Jackson, Sylvia Fitton 1811  
The formation of connective and skeletal tissues. *Proc. Roy Soc. London.* 142B:536-48. 1954.
- Jackson, S. Fitton & R. H. Smith 1812  
Fibrogenesis of connective and skeletal tissues in the embryonic fowl. *Symposia*
- Soc. Exptl. Biology. 9:89-96. 1955.
- Jacob, L. 1813  
The field in an electron-optical immersion objective. *Proc. Phys. Soc. London.* 63B:75-83. 1950.
- Jacob, L. 1814  
The current in the electron immersion objective. *Proc. Phys. Soc. London.* 65B:421-5. 6/52.
- Jacob, L. & J. R. Shah 1815  
Trajectories in the symmetrical electron lens. *J. Appl. Phys.* 24:1261-6. 10/53.
- Jacobi, Wolfgang 1816  
Elektronenmikroskopische Untersuchung unipolar beladener Aerosole. *Strahlentherapie.* 94(3):472-9. 1954.
- Jacobs, Earl E., A. E. Vatter & Stanley Holt 1817  
Crystalline chlorophyll and bacteriochlorophyll. *J. Chem. Phys.* 21:2246-7. 12/53.
- Jacobs, Earl E., A. E. Vatter & A. S. Holt 1818  
Crystalline chlorophyll and bacteriochlorophyll. *Arch. Biochem. and Biophys.* 53(1):228-38. 11/54.
- Jacquet, P. A. 1819  
Recherches experimentales sur la micro-structure de la solution solide cuivre-Zinc 65/35 polycristalline très faiblement déformée par traction et sur son évolution au recuit entre 200° et 600°C. *Acta Met.* 2:752-69. 1954.
- Jaffe, M. S. 1820  
Improving precision of powder diffraction with the RCA-EMU electron microscope. (Abstract, Paper #15, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) *J. Appl. Phys.* 22:112. 1951.
- Jahn, Brigitte 1821  
Elektronenmikroskopische Untersuchungen an Foraminiferenschalen. *Z. wiss. Mikroskop.* 61:294-7. 3/53.
- Jakob, A. 1822  
Zur Feinstruktur des Nervus ischiadicus. *Optik.* 7:313-7. 10-12/50.
- Jakus, Marie 1823  
The fine structure of rat cornea. (Abstract, Paper #37, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) *J. Appl. Phys.* 24:116. 1953.
- Jakus, Marie A. 1824  
The fine structure of the cornea. *Acta Conc. Ophth.* 17:461-4. 1954.
- Jakus, Marie A. 1825  
Studies on the cornea. I. The fine structure of the rat cornea. *Am. J. Ophthalmol.* 38(1):40-52. 1954.
- Jansen, L. H. 1826  
Studie van het bindweefsel naar aanleiding van de ziekte van Ehlers en Danlos. *'Arch. belg. derm. syph.* 10(3):251-9. 1954.
- Jawetz, Ernest, Joseph L. Melnick & Edward A. Adelberg 1827  
Review of medical microbiology. Los Altos, Calif., Lange Medical Publ., 1954. 360p.

- Jayme, Georg & Gunther Hunger 1828  
Die Oberflächen ungebleichter Fichtensulfat  
und Sulfitzellstoffe im elektronenmikroskop-  
ischen Bild. Holz Roh u. Werkstoff. 13:212-5.  
1955.
- Jeener, R., P. Lemoine & C. Lavand'homme 1829  
Détection et propriétés de formes du  
virus de la mosaïque du tabac dépourvues  
d'acide ribonucleique et non infectieuses.  
Biochim. et Biophys. Acta. 14:321-34. 1954.
- Jeffrey, G. M., J. Sikorski & H. J. Woods 1830  
The mechanism of supercontraction in  
keratin. Textile Research J. 25(8):714-22.  
1955.
- Jensen, C. E. & Fritz Carlsen 1831  
Hyaluronic acid. vi. An electron micro-  
scope study of potassium hyaluronate. Acta  
Chem. Scand. 8:1357-60. 1954.
- Jensen, D. D. & A. Herbert Gold 1832  
A virus ring spot of *Odontoglossum* orchid:  
symptoms, transmission, and electron micro-  
scopy. Phytopathology. 41:648-53. 7/51.
- Jensen, D. D. & A. H. Gold 1833  
Hosts, transmission and electron micro-  
scopy of Cymbidium mosaic virus with special  
reference to *Cattleya* leaf necrosis. Phyto-  
pathology. 45:327-34. 1955.
- Jensen, J. H. 1834  
Identification of virus infection in  
plant tissue. Ann. Rev. Microbiol. 6:139-50.  
1952.
- Jesaitis, Margeris A. & W. F. Goebel 1835  
Mechanism of phage action. Nature. 172:  
622. 1953.
- Jesaitis, M. A. & Walther F. Goebel 1836  
Lysis of T<sub>4</sub> phage by the specific lipo-  
carbohydrate of phase II *Shigella sonnei*.  
J. Exptl. Med. 102(6):733-52. 12/1/55.
- Jirgensons, B. & M. E. Straumanis 1837  
A short textbook of colloid chemistry.  
New York, John Wiley, 1954. 420p.
- Joel, C. A., H. Frei & F. L. Hirshfeld 1838  
Electron microscopic studies of normal  
and pathologic human spermatozoa. Fertility  
and Sterility. 2:332. 1951.
- Johann, I. & E. Klein 1839  
Elektronenmikroskopische Untersuchungen  
an photographischen Schichten. Teil 2:  
Dünnschnitte durch Körner photographischer  
Schichten. Phot. Korr. 91(12):199-204. 1955.
- Johnson, G. W. 1840  
Surface tension effects in oriented thin  
silver films. J. Appl. Phys. 21:449-53. 5/50.
- Johnson, James 1841  
Virus particles in various plant species  
and tissues. Phytopathology. 41:78-93. 1/51.
- Johnson, Ralph A. 1842  
Production, particle characteristics, and  
spectra of tellurium hydrosols for spectro-  
photometry. Anal. Chem. 25:1013-9. 7/53.
- Jones, D. 1843  
Observation of metal surfaces at high  
temperatures in the reflection electron  
microscope. Bull. Inst. Metals. 2:235. 1955.
- Jonsen, Jon & Andrew G. Smith 1844  
The effect of certain fixatives, salts and  
enzymes on bacterial cells with respect to  
chromatinic structure and contrast in electron  
microscopy. (Abstract, Paper #39, Electron  
Microscope Society of America Meeting, Wash-  
ington, D. C., 10/6-8/49.) J. Appl. Phys. 21:71.  
1950.
- Jonsen, Jon & Th. Thjötta 1845  
Studies on bacteroides. IV. Electron micro-  
graphs of *Necrobacterium necrophorus*. Acta  
Pathol. Microbiol. Scand. 27:152-8. 1950.
- Jötten, K. W. & G. Pfefferkorn 1846  
Die Grundlagen der Elektronenmikroskopie  
und ihre Anwendung in der Medizin. Neue med.  
Welt. 1:17-9. 1/5/50.
- Jötten, K. W. & G. Pfefferkorn 1847  
Die Identifizierung von Staubeilchen in  
der Staublungenforschung mit Roentgen- und  
Elektronenstrahlen Röntgenfeinstrukturuntersuchung,  
Elektronenmikroskopie und Elektronenbeugung.  
Neue med. Welt. 1:967-8. 7/15/50.
- Jötten, K. W. & G. Pfefferkorn 1848  
Forschungen zur Frage der Staublungen-  
krankungen. Bundesarbeitsblatt. 22:700-2. 1953.
- Jötten, K. W. & G. Pfefferkorn 1849  
Quarzauflosung und Silikosetheorien. Elek-  
tronenmikroskopische Untersuchungen. Arch. Hyg.  
u. Bakteriol. 137(2):79-84. 1953.
- Juhász, I. 1850  
The variability of microorganisms with  
special reference to the filtrable forms of  
bacteria. (in Russian, English summary) Acta  
Physiol. Acad. Sci. Hung. 5(1 2):261-72. 1954.
- Juhász, I., B. Lovas & D. M. Egyessy 1851  
Electron micrographic examination of bac-  
teriogenesis from filtrable forms (*Salmonella*  
*enteritidis* var. Danysz). Acta Physiol. Acad.  
Sci. Hung. 8(1):97-108. 1955.
- Juhász, I. & J. Vadász 1852  
Regeneration of the filtrable forms of  
*Salmonella enteritidis* in media containing  
blood plasma (fibrin structure). Nature. 176:  
208-9. 7/30/55.
- Jung, F. 1853  
Strukturprobleme am roten Blutkörperchen.  
I. Methodische Fragestellungen. Naturwissen-  
schaften. 37:229-33. 1950.
- Jung, F. 1854  
Strukturprobleme am roten Blutkörperchen.  
III. Der Blutkörperchenschatten. Naturwissen-  
schaften. 37:254-60. 1950.
- Jung, F., H. Mattheis, I. Uerlings &  
W. Rauterberg 1855  
Funktionelle und morphologische Beobachtungen  
an Eiliptozyten. Deut. Gesundheitsw. 9(37):  
1085-7. 1954.
- Jung, F., H. Rind & H. Stobbe 1856  
Reticulocyten im Elektronen- und Phasen-  
kontrastmikroskop. 5th Kongr. Europ. Gesell.  
Hämatol. Freiburg, 9/20-24/55. :774-5.
- Jürgens, R. & H. Braunsteiner 1857  
Zur Pathogenese der Thrombose. Schweiz.



med. Wochschr. 80:1388-1407. 1950.

Kadmer, Erich H. 1858  
Licht- und elektronen-mikroskopische  
Studien an gebrauchten Motorenölen. Auto-  
mobiltech. Z. 53(12):305-8. 1951.

Kaesberg, Paul 1859  
A simple apparatus for obtaining uniform  
exposures in the electron microscope. Rev.  
Sci. Instr. 26:1078. 11/55.

Kaesberg, Paul, R. V. Rice & M. A. 1860  
Stahmann  
Some results of the application of a freeze  
drying method to biological materials. (Ab-  
stract, Paper #67, Electron Microscope Society  
of America Meeting, Pocono Manor, Pa., 11/5-  
7/53.) J. Appl. phys. 24:1423. 11/53.

Kaesberg, Paul & Sidney Shulman 1861  
Electron microscope observations on inter-  
mediate polymers in the conversion of fibrin-  
ogen to fibrin. J. Biol. Chem. 200(1):293-6.  
1/53.

Kaesberg, Paul & Sidney Shulman 1862  
Intermediate polymers in the conversion  
of fibrinogen to fibrin. (Abstract, Paper  
#34, Electron Microscope Society of America  
Meeting, Cleveland, Ohio, 11/6-8/52.) J.  
Appl. Phys. 24:116. 1953.

Kaesberg, Paul & M. M. Shurman 1863  
X-ray and electron microscope studies of  
collagen. (Abstract, Paper #21, Electron  
Microscope Society of America Meeting, Detroit,  
Michigan, 9/14-6/50.) J. Appl. Phys. 22:112.  
1951.

Kahler, H. & B. J. Lloyd, Jr. 1864  
Metallic evaporation and the diameter of  
tobacco mosaic virus with the electron micro-  
scope. J. Appl. Phys. 21:699-704. 7/50.

Kahler, Herbert & B. J. Lloyd, Jr. 1865  
Electron microscopic study of the Shope  
papilloma virus. J. Natl. Cancer Inst.  
12:1167-75. 6/52.

Kahler, H. & B. J. Lloyd, Jr. 1866  
The electron microscopy of sodium desoxy-  
ribonucleate. (Abstract, Paper #43, Electron  
Microscope Society of America Meeting, Cleve-  
land, Ohio, 11/6-8/52.) J. Appl. Phys. 24:117.  
1953.

Kahler, H. & B. J. Lloyd, Jr. 1867  
The electron microscopy of sodium desoxy-  
ribonucleate. Biochim. et Biophys. Acta.  
10:355-9. 3/53.

Kahler, H., B. J. Lloyd, Jr. & M. Eden 1868  
Electron microscopic and other studies  
on a copper cystine complex. (Abstract,  
Paper #44, Electron Microscope Society of  
America Meeting, Philadelphia, Pa., 12/8-10/51.)  
J. Appl. Phys. 23:164. 1/52.

Kahler, H., B. J. Lloyd, Jr. & M. Eden 1869  
Electron microscopic and other studies on  
a copper-cystine complex. J. Phys. Chem.  
56:768. 1952.

Kahovec, L., G. Porod & H. Ruck 1870  
Röntgenkleinwinkeluntersuchungen an dicht-  
gepackten kolloiden Systemen. Kolloid-Z.  
133(1):16-26. 1953.

Kajikawa, Kinichiro & Masanori Fukuda 1871  
An autopsy case of osteogenesis imperfecta  
congenita. Acta Pathol. Japon. 5(Suppl)  
:525-34. 1955.

Kajikawa, Kinichiro & Yukio Sumita 1872  
Electron microscopic studies on the con-  
nective tissue. I. The structure of the normal  
loose connective tissue fiber and its formation.  
II. The connective tissue fiber under various  
pathological conditions. Acta Pathol. Japon.  
3(2):66-83. 1953.

Kalmus, Ernest H. 1873  
Preparation of aerosols for electron  
microscopy. J. Appl. Phys. 25:87-9. 1/54.

aufm. Kampe, H. J., H. K. Weickmann & H. H. 1874  
Kedesdy  
Remarks on electron microscope study of  
snow-crystal nuclei. J. Meteorol. 9(5):374-6.  
10/52.

Kanaya, Kōichi 1875  
On the manufacture accuracy of magnetic  
lenses in electron microscopes. J. Electron-  
microscopy. 1(1):7-12. 1953.

Kanaya, Kōichi 1876  
The temperature of specimens and their  
structure changes in electron microscopes.  
Part I. Metallic substances. 1st Int. Cong.  
Electron Micros., Paris, 9/50. Proc. :409-12.  
Paris, Ed. Rev. Optique, 1953.

Kanaya, Kōichi 1877  
The distribution of temperature along a  
rod-specimen in the electron microscope. Bull.  
Electrotech. Lab. 19(9):40-50. 1955.

Kanaya, Kōichi 1878  
Electron optic theory on the design of mag-  
netic lenses for electron microscopes. Re-  
searches Electrotech. Lab. Tokyo. 548:1-70. 1955.

Kanaya, Kōichi 1879  
The temperature-distribution of specimens  
on thin substrates supported over a circular  
opening in the electron microscope. J. Elec-  
tronmicroscopy. 3(1):1-8. 1955.

Kanaya, Kōichi, Y. Inoue & A. Ishikawa 1880  
Image formation of electron microscopes  
from view-point of wave-optics. J. Elec-  
tronmicroscopy. 2(1):1-7. 1954.

Kanaya, Kōichi & Keinosuke Kobayashi 1881  
Electron scattering and contrast in electron  
microscopes. 1st Int. Cong. Electron Micros.,  
Paris, 9/50. Proc. :89-91. Paris, Ed. Rev.  
Optique, 1953.

Kanngiesser, W. & N. Deubner 1882  
Elektronenmikroskopische Aufnahmen von  
Kartoffel-X-Virus in gefriergetrocknetem Tabak-  
rohsaft. Naturwissenschaften. 16:442-3. 1953.

Kanngiesser, W. & B. Deubner 1883  
Veränderungen des elektronenmikroskopischen  
Bildes von Kartoffel-X-Virus unter dem Einfluss  
verschiedener Chemikalien. Arch. ges. Virus-  
forsch. 5(5):483-96. 1954.

Kantzer, M. & M. Mezard 1884  
Présentation de photographies d'un gel de  
silice au microscope électronique. Bull. soc.  
franç. céram. 6:37-41. 1-3/50.



- Karrer, H. 1885  
A comparison of normal and infected mouse lung by means of the electron microscope. (Abstract, Paper #F3, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1461. 1954.
- Karrer, H. E. 1886  
Fine structure of alveoli and of bronchiolar epithelial cells of normal mouse lung. (Abstract, Paper #14, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26:1393. 1955.
- Kassenbeck, P. 1887  
Contribution à l'étude de la structure fine des rayones et fibrilles. Bull. inst. textile France. 43:44-52. 1953.
- Kassenbeck, P. 1888  
Influences de traitements physiques et chimiques sur l'état des fibres de rayonne-viscose. Cong. Int. Recherche Scient. Appl. Industrie Textile, Bruxelles, 6/27-9/55. 12p.
- Kassenbeck, P. 1889  
La microscopie électronique au service de la recherche textile. Teintex. 20:531, 533-4, 537, 539-40. 1955.
- Kassenbeck, P. 1890  
Untersuchung der Textilmaterialien mit elektronenmikroskopischen Methoden. Z. wiss. Mikroskop. 62(3):200-4. 1955.
- Kassenbeck, Paul & Jean Jacques Trillat 1891  
L'examen des coupes de fibres textiles au microscope électronique. Bull. microscop. appl. 3:93-5. 7-8/53.
- Kassenbeck, Paul & Jean-Jacques Trillat 1892  
Sur l'examen en microscopie électronique des coupes de fibres textiles par une méthode de double empreinte. Compt. rend. acad. sci. 236:369-71. 1/26/53.
- Katagiri, Shinjiro 1893  
Experimental study of axial chromatic aberration. J. Electronmicroscopy. 1(1):13-8. 1953.
- Katagiri, Shinjiro 1894  
Experimental investigation of chromatic aberration in the electron microscope. Rev. Sci. Instr. 26:870-3. 9/55.
- Kato, Yoshiro, Shigeru Yamanaka & Gunji Shinoda 1895  
A fine focus X-ray tube for shadow microscopy. Technol. Repts. Osaka Univ. 3(56):5-10. 1953.
- Katsurai, Tominosuke 1896  
Electron microscopic examination of the surface of stainless steel by means of oxide replica method. Trans. Chalmers Univ. Technol. Gothenburg. 96:3-6. 1950.
- Kaufmann, H. P. & E. Gulinsky 1897  
Anwendungen der Elektronen-Mikroskopie auf dem Fettgebiet. I. Untersuchung von Anstrichen. Fette u. Seifen. 57:1007-10. 1955.
- Kausche, G. A. 1898  
Über das Verhalten der *Rickettsia* (Coxiella) burneti auf der Fibroblastenkultur. Z. Naturforsch. 7b:243-8. 4/52.
- Kaushal, R. & T. K. Walker 1899  
Observations on the formation and structure of bacterial cellulose. Biochem. J. 50(1):128-32. 1951.
- Kautsky, Hans, Wolrad Vogell & Franz Oeters 1900  
Die Bedeutung elektronenmikroskopischer Untersuchungen für die Konstitutions- und Strukturaufklärung des Siloxens. Z. Naturforsch. 10b(10):597-8. 1955.
- Kautz, Jean & Q. B. DeMarsh 1901  
An electron microscope study of sectioned cells of peripheral blood and bone marrow. Blook. 9:24-38. 1/54.
- Kautz, J. & Q. B. De Marsh 1902  
Fine structure of the nuclear membrane in cells from the chick embryo: On the nature of the so-called "pores" in the nuclear membrane. Exptl. Cell Research. 8:394-6. 1955.
- Kawabara, Haruyuki, Tanehiko Higuchi & Michitaka Kawano 1903  
Electron microscopic study on the fertilization membrane of the eggs activated with some chemical agents. Zikken Seibutsu gaku Ho, Japan. 5(1):53-8. 1955.
- Kawamura, Hozo 1904  
Abhängigkeit der Grösse der Strukturperiode von Alter und Dicke bei den Mikrofibrillen der Sehne. Arch. hist. Jap. 7(1):1-4. 1954.
- Kay, H. F. & Barbara Appelbe 1905  
The surface of beryl and cadmium iodide crystals. Phil. Mag. 44:105-6. 1953.
- Kaye, Seymour M. 1906  
An electron microscope examination of the surfaces of M-8 propellant for bacterial contamination. Picatinny Arsenal, Samuel Feltman Ammunition Labs. Tech. Report 2210. September, 1955. 28p.
- Kaye, Seymour M. 1907  
An electron microscope method for the determination of the particle size distribution and particle shape of colloidal and ball-milled lead azide. Picatinny Arsenal, Samuel Feltman Ammunition Labs. Tech. Report 2133. February, 1955. 30p.
- Kaye, Seymour M. 1908  
An electron microscope study of the surfaces of sectioned M-15 propellant grains. Picatinny Arsenal, Samuel Feltman Ammunition Labs. Tech. Report 2201, July, 1955. 38p.
- Kaye, Seymour M. 1909  
An electron microscope study of the surfaces of sectioned M-17 propellant grains. Picatinny Arsenal, Samuel Feltman Ammunition Labs. Tech. Report 2177. May, 1955. 29p.
- Kaye, Wilbut & Virgil Peck 1910  
A technique for the study of etched cellulose acetate fibers. (Abstract, Paper #5, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:110. 1951.
- Kayser, D. 1911  
Perfectionnements récents du microscope. Presse méd. 60(66):1399-1401. 10/18/52.
- Keech, Madeline K. 1912  
The effect of collagenase and trypsin on collagen. Anat. Record. 119(2):139-59. 1954.

- Keech, Madeline K. 1913  
The percentage of tapered fibril ends in skin collagen from cases with and without "collagen disease". Yale J. Biol. Med. 26: 527-35. 6/54.
- Keech, Madeline K. 1914  
Human skin collagen from different age groups before and after collagenase digestion. Ann. Rheumatic Diseases. 14(1):19-50. 3/55.
- Keleti, T., G. Szabolcsi, A. Lendvai & T. Garzo 1915  
Untersuchungen über die lebensfähigen Eiweisskörper (Filtrierbare Form) von *Saccharomyces cerevisiae*. I. Die Regeneration im sterilen Filtrat von zerstörten Hefezellen. Acta Physiol. Acad. Sci. Hung. 5(1/2):213-40. 1954.
- Kellenberger, E. 1916  
New methods for biological replicas. Conf. of Electron Micros., Delft, 7/49. Proc. The Hague, Nijhoff, 1950. :101-3.
- Kellenberger, Ed. 1917  
Die Einflüsse verschiedener Präparationsmethoden auf *E. coli* B. Z. wiss. Mikroskop. 60:408-18. 3/52.
- Kellenberger, E. 1918  
Les nucléoides de *Escherichia coli* étudiés à l'aide du microscope électronique. Experientia. 8:99-101. 3/52.
- Kellenberger, E. 1919  
Les transformations des nucléoides de *Escherichia coli* provoquées par les rayons ultra-violet. Experientia. 8(7):263. 1952.
- Kellenberger, E. 1920  
Les formes caractéristiques des nucléoides de *E. coli* et leurs transformations dues à l'action d'agents mutagènes-inducteurs et de bactériophages. Bacterial Cytology, Symposium, 6th Int. Cong. Microbiol., Rome, 9/53. :45-66. Rome, Ist. Super. Sanità, 1953.
- Kellenberger, E. 1921  
Nouvelle méthode d'investigation des corps chromatiniques des bactéries. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :727-32. Paris, Ed. Rev. Optique, 1953.
- Kellenberger, E. 1922  
Étude de bactéries, de bactériophages et de leurs interactions. Rapport Europées Congrès Toeg. Em. Gent, 4/7-10/54. :91-101.
- Kellenberger, E. & W. Arber 1923  
Die Struktur des Schwanzes der Phagen T<sub>2</sub> und T<sub>4</sub> und der Mechanismus der irreversiblen Adsorption. Z. Naturforsch. 10b(12):698-704. 1955.
- Kellenberger, E. & Lucie Huber 1924  
Contribution à l'étude des équivalents des mitochondries dans les bactéries. Experientia. 9(8):289. 1953.
- Kellenberger, G. & E. Kellenberger 1925  
La lysogénie d'une souche *Bacillus cereus*. Mise en évidence par le microscope électronique. Schweiz. Pathol. u. Bakteriologie. 15:225-33. 1952.
- Kellenberger, E. & Ch. Rouiller 1926  
Die Knochenstruktur untersucht im Elektronenmikroskop. Schweiz Z. allgem. Pathol. u. Bakteriologie. 13:784-8. 1950.
- Kellenberger, E. & A. Ryter 1927  
Contribution à l'étude du noyau bactérien. Schweiz. Z. allgem. Pathol. u. Bakteriologie. 18(5):1122-37. 1955.
- Keller, A. 1928  
Morphology of crystallizing polymers. Nature. 169:913-4. 5/31/52.
- Keller, Fred 1929  
Electron microscopy of light-metal alloys. In Metallurgical Applications of the Electron Microscope. Institute of Metals Monograph and Report Series No. 8. London, 1950. :85-96.
- Kelling, H. W. & F. Schleich 1930  
Elektronenmikroskopische Studien an hautpathogenen Pilzen. Arch. Dermatol. Syphilis. 199:33-46. 1954.
- Kel'mand, V. M. 1931  
Elektronnaya optika. Moskva, Izd-vo Akademii Nauk SSR, 1955. 163p.
- Kelly, E. M. 1932  
Electron microscope study of slip bands in radiation-damaged aluminum crystals. Acta Met. 3(1):101-2. 1955.
- Kelsch, John J. 1933  
Electron and light microscopy of film surfaces. (Abstract, Paper #A23, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1456. 1954.
- Kelsch, John J. & Joan Bardet 1934  
Electron microscopy of renal morphology. (Abstract, Paper #12, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:67. 1950.
- Kennedy, James J. 1935  
Tubular structure of collagen fibrils. Science. 121:673-4. 1955.
- Kennedy, James J., George W. Teuscher & Leonard S. Fosdick 1936  
The ultramicroscopic structure of enamel and dentin. J. Am. Dental Assoc. 46:423-31. 4/53.
- Kenyon, J. 1937  
Electron microscope photographs of polished mineral surfaces. Nature. 172:114. 7/18/53.
- Kerker, Milton, A. Lucile Cos. & Melvin D. Schoenberg 1938  
Maximum particle sizes in polydispersed aerosols. J. Colloid Sci. 10(5):413-27. 1955.
- Kerkhof, Frank, Robert Seeliger & Walter Westphal 1939  
Elektronenmikroskopische Untersuchungen an Opakglasbruchflächen. Glastech. Ber. 28(7):261-4. 1955.
- Kern, Raymond A. & S. F. Kern 1940  
The apparent size of small semi-opaque objects. (Abstract, Paper #44, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:71. 1950.
- Kern, Raymond A., Mary Jane Kingkade, Stanley F. Kern & Otto K. Behrens 1941  
Characterization of the action of lysozyme on *Staphylococcus aureus* and on *Micrococcus lysodeikticus*. J. Bacteriology. 61:171-8. 2/51.
- Kern, Stanley F. & Raymond A. Kern 1942  
The apparent size of objects as observed in



the electron microscope. J. Appl. Phys.  
21:705-7. 7/50.

Kern, S. F., R. A. Kern, O. K. Behrens &  
M. J. Kingkade 1943  
Electron microscope observations on lysed  
and ground *Staphylococcus aureus* and *Micro-*  
*coccus lysodeikticus*. (Abstract, Paper #32,  
Electron Microscope Society of America Meeting,  
Detroit, Michigan, 9/14-6/50.) J. Appl. Phys.  
22:114. 1951.

Kerr, J. & C. Wert 1944  
Effect of nitrides on the coercive force  
of iron. J. Appl. Phys. 26:1147-51. 9/55.

Keuning, F. J. 1945  
De phasencontrastmicroscop. Ned. Tidschr.  
Geneesk. 95:2458-64. 8/25/51.

Kienle, R. H. & D. Maresh 1946  
Observations on optical properties of pig-  
mented films. J. Oil & Colour Chemists' Assoc.  
36:619-45. 1953, and Offic. Dig. Federation  
Paint & Varnish Production Clubs. 26:5-13. 1954.

Kiesskalt, S. 1947  
Bewertungsfragen der Feinzerkleinerung.  
Chem. Ing. Tech. 1:14-8. 1954.

Kikuth, W. & H. W. Schlipkoter 1948  
Elektronenmikroskopische und tierexperi-  
mentelle Untersuchungen über die Wirkung von  
Wiesbadener Kochbrunner auf Quarz und Silikose.  
Staublebenerkrankungen 2:249-65. 1954.

Kikuth, Walter & Hans Werner Schlipkötter 1949  
Die Entstehung der Silikose und ihre Ver-  
hütungsmassnahmen. Arbeitsgem. Forsch. des  
Landes Nordrhein-Westfalen. 40:53-108. 1954.

Kilham, Lawrence, Councilman Morgan &  
Ralph W. G. Wyckoff 1950  
The electron microscopy of chick embryo  
membranes infected with Newcastle disease.  
J. Immunol. 67:523-8. 12/51.

Kilian, E. F. 1951  
Die Feinstruktur des Kragens bei den  
Choanocyten der Spongilliden. Ber. oberhess.  
Ges. Natur- u. Heilk. Giessen, Naturw. Abt.  
27:85-9. 1954.

Kimura, Ren 1952.  
Electron microscopy of vaccinia virus in  
the infected tissue cultures. Proc. Japan  
Acad. 26(10):55-8. 1950.

Kimura, Ren 1953  
An electron microscopy of viruses in host  
cells. Acta Schol. Med. Univ. Kioto. 32(1):  
28-31. 1954.

Kimura, Ren, Yohei Ito & Y. Ozaki 1954  
An electron microscopic study on the thiamine  
decomposing bacterium, *Bacillus aneurinolyticus*  
Kimura et Aoyama. J. Vitaminol. 1(2):61-4. 1955.

Kimura, Ren & Yoshikatsu Ozaki 1955  
Electron-microscopic studies of ectromelia  
inclusion bodies. Acta Schol. Med. Univ.  
Kioto. 31(1):1-6. 1953.

Kimura, Ren & T. Shimizu 1956  
Light- and electron microscopy of *Rickettsia*  
*mooseri* in the infected tissue cultures.  
Virus, Osaka. 2(5):249-51. 1952.

Kinder, E. 1957  
Über die Dimensionierung von Kleinmikroskopen.  
Optik. 10:171-91. 1953.

Kinder, Ernst 1958  
Gefügeuntersuchungen an Stahl mit einem  
Klein-Elektronenmikroskop. Arch. Eisenhüttenw.  
26(2):113-6. 1955.

Kinder, E. & A. Puff 1959  
Kunstgriffe und Kunstprodukte beim Quarz-  
abdruckverfahren. Z. wiss. Mikroskop. 62(2):  
116-8. 1954.

Kinder, E. & F. Schleich 1960  
Das magnetische Elektronenmikroskop als  
Messgerät zur Kontrolle der Stromquellenkonstanz.  
Optik. 7:284-9. 5/50.

Kinder, E. & F. Schleich 1961  
Ein Netzanschlussgerät zur Erzeugung hoch-  
konstanter Magnetisierungsströme für Elektronen-  
linsen. Z. angew. Phys. 2:332-4. 8/50.

Kinosita, R., J. O. Erickson, D. M. Armen,  
M. E. Dolch & J. P. Ward 1962  
Electron microscope study of mouse mammary  
carcinoma tissue. Exptl. Cell Research.  
4:353-61. 5/53.

Kinsloe, H., Eugene Ackerman & J. J. Reid 1963  
Exposure of microorganisms to measured  
sound fields. J. Bacteriol. 68(3):373-80.  
9/54.

Kinter, Earl B., Adolph M. Wintermyer &  
Max Swardlow 1964  
Electron microscopy of soil clays and re-  
lated materials. Public Roads. 27(5):89-100.  
12/52.

Kirchgeßner, W. G. 1965  
Simple photometric method for use with  
RCA type EBM electron microscope. Anal. Chem.  
24:224. 1/52.

Kirkpatrick, Paul 1966  
Ein weg zur Röntgenstrahlen-Mikroskopie.  
Umschau Wiss. u. Tech. 16(50):499-501. 1950.

Kisch, Bruno 1967  
Microscopia electronica del musculo cardiaco.  
Rev. soc. mex. hist. nat. 12:1-4. 1951.

Kisch, Bruno 1968  
Electron microscopy as applied to cardiology.  
J. Mt. Sinai Hosp. 19(4):606-11. 1952.

Kisch, Bruno 1969  
La microscopie électronique appliquée à la  
cardiologie. Arch. maladies coeur. 5:440. 1953.

Kisch, B. 1970  
The vital importance of sarcosomes in the  
heart. 19th International Physiological Con-  
gress, Montreal, 1953. Abstr. of Comm. :518-9.

Kisch, Bruno 1971  
Electron microscopy of the sarcosomes in  
the heart. Biol. Bull. 107(2):292. 1954.

Kisch, Bruno 1972  
Studies in comparative electron microscopy  
of the heart. I. Pipefish and bat. Exptl.  
Med. and Surg. 12(3):335-60. 1954.

Kisch, Bruno 1973



Electron microscopic investigation of the lungs (capillaries and specific cells). Exptl. Med. and Surg. 13(2):101-17. 6/55.

Kisch, Bruno 1974  
Electron microscopy of the flight muscles of insect. Pubbl. staz. zool. Napoli. 27: 160-7. 1955.

Kisch, Bruno 1975  
Ghosts of sarcosomes in the human heart. Exptl. Med. and Surg. 13(1):9-16. 3/55.

Kisch, B. 1976  
Progressi nello studio al microscopio elettronico del cuore e dei polmoni. Atti soc. lombarda sci med e biol. 10(4):704-11. 1955.

Kisch, Bruno 1977  
Studies in comparative electron microscopy of the heart. II. Guinea pig and rat. Exptl. Med. and Surg. 13(4):404-28. 1955.

Kisch, Bruno & Delbert Philpott 1978  
Electronmicroscopic observations on sarcosomes. I. Insects (bumble bee). Exptl. Med. and Surg. 13(1):63-72. 3/55.

Kittrick, J. A. & M. L. Jackson 1979  
Electron microscope observations of the formation of aluminum phosphate crystals with kaolinite as the source of aluminum. Science. 120:508-9. 9/24/54.

Kittrick, J. A. & M. L. Jackson 1980  
Rate of phosphate reaction with soil minerals and electron microscope observations on the reaction mechanism. Soil Sci. Soc. Amer. Proc. 19:292-5. 1955.

Kiungasa, Hideo & Tadashi Fujiwara 1981  
Studies on the collagen fibril of eye tissue with electron microscope. J. Osaka City Med. Center. 2(2):40-2. 1953.

Kjellén, Lars, Gösta Lagermalm, Arne Svedmyr & Karl-G. Thorsson 1982  
Crystalline-like patterns in the nuclei of cells infected with an animal virus. Nature. 175:505. 3/19/55.

Kleczkowski, A. & H. L. Nixon 1983  
An electron-microscope study of potato virus X in different stages of aggregation. J. Gen. Microbiol. 4:220-4. 5/50.

Kleen, Werner & Klaus Pöschl. 1984  
Fokussierung von Elektronenstrahlen durch Magnetfelder. Arch. elektr. Übertr. 9:295-8. 1955.

Klein, E. 1985  
Elektronenmikroskopische Untersuchungen an photographischen Schichten. Teil 1: Untersuchungen an nicht geschnittenen Emulsionskornern. Phot. Korr. 91(11):179-86. 1955.

Klein, R. & A. Gautier 1986  
Morphologie des mitochondries au microscope électronique. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc.:688-91. Paris, Ed. Rev. Optique, 1953.

Kleinfeld, Ruth G., Milton A. Lessler, Marie H. Greider & Walter J. Frajola 1987  
Effect of thioacetamide upon rat liver cells (Abstract, Paper #H14, Electron Microscope

Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1466. 1954.

Kleinschmidt, A. 1988  
Grossenbestimmung im Elektronenmikroskop mit gespreiteten monodispersen Polystyrol-Latexteilchen. Kolloid-Z. 142(2/3):74-6. 1955.

Kleinschmidt, A. 1989  
Morphologische Untersuchungen über die Erythrocytenmembran. Die elektronenmikroskopische Darstellung durch Oberflächenstreuung. Acta Haematol. 13:337-51. 6/55.

Kleinschmidt, Albrecht & Ernst Kinder 1990  
Elektronenoptische Befunde an Rattentrypanosomen. Zentr. Bakteriол. Parasitenk. Abt. I Orig. 156:219-24. 11/25/50.

Kleinschmidt, A. & E. Kinder 1991  
Elektronenoptische Untersuchungen an Trypanosomen. Optik. 7:322. 1950.

Klemperer, Otto 1992  
Electron optics. Cambridge, Cambridge University Press, 1953. 471p.

Klieneberger-Nobel, E. & F. W. Cuckow 1993  
A study of organisms of the pleuropneumonia group by electron microscopy. J. Gen. Biol. 12(1):95-9. 2/55.

Kling, W. 1994  
Theorie des Waschens. Z. Elektrochem. 59(4):260-70. 1955.

Kling, W. & H. Mahl 1995  
Elektronenmikroskopische Untersuchungen an Textilfasern. Optik. 7:217-8. 4-5/50.

Kling, W. & H. Mahl 1996  
Zur Kenntnis des Waschvorganges VIII. Über elektronenmikroskopische Untersuchungen an Faseroberflächen. Melliand Textilber. 31:407-13. 1950.

Kling, W. & H. Mahl 1997  
Zur Morphologie der Baumwollfaser I. Die Primärwand und ihr Verhalten beim alkalischen Abkochen. Melliand Textilber. 32:131-6. 2/51.

Kling, W. & H. Mahl 1998  
Zur Morphologie der Baumwolle II. Über den bakteriellen Abbau der Baumwollfaser und die Bauelemente der Sekundärwand. Melliand Textilber. 33:32-6. 1/52.

Kling, W. & H. Mahl 1999  
Zur Morphologie der Baumwollfaser III. Elektronenmikroskopische Untersuchungen an Faserquerschnitten. Melliand Textilber. 33:328-31. 1952.

Kling, W. & H. Mahl 2000  
Zur Morphologie der Baumwolle IV. Zusammenfassung der experimentellen Ergebnisse zu einem neuen, verbesserten Fasermode'll. Melliand Textilber. 33:829-32. 9/52.

Kling, W. & H. Mahl 2001  
Zur Kenntnis des Waschvorganges IX. Elektronenmikroskopische Untersuchungen über Ansetzungen auf Baumwolle und Wolle. Melliand Textilber. 35(6):640-5. 1954.

Kling, W. & H. Mahl 2002  
Wasserlösliche grenzflächenaktive Verbindungen unter dem Elektronen-Mikroskop. I.

Untersuchungsmethoden und erste Ergebnisse an Natriumseifen. *Fette u. Seifen*. 57:643-7. 1955.

Knapp, D. R. & R. P. Mitra 2003  
Electron diffraction by clay minerals with a fibrous or rod-like habit. *Nature*. 168:380. 1951.

Knaysi, Georges, J. Hillier & C. Fabricant 2004  
The cytology of an avian strain of *Mycobacterium tuberculosis* studied with electron and light microscopes. *J. Bacteriol.* 60:423-47. 10/50.

Knights, E. M., V. Clermont, R. M. Sturrock B. J. Schultz 2005  
Les erythrocytes falciformes étudiés au microscope électronique. *Rev. hématol.* 10 (1):95-8. 1955.

Knoll, M. 2006  
Electron-lens raster systems. I. Principle. *Nat. Bur. Standards U. S. Circ.* 527:329-37. 1954.

Knoll, Max 2007  
Elektronenoptische Linsenraster-Systeme und ihre Anwendung für Elektronenbildspeicher. *Z. angew. Phys.* 6(10):442-9. 1954.

Knöll, H. & K. Zapf 2008  
Untersuchungen zum Problem des Bakterienzellkerns. *Zentr. Bakteriell. Parasitenk. Abt. I. Orig.* 161(4/5):241-59. 1954.

Kobayashi, K. & S. Shimadzu 2009  
A new ultramicrotome of rotary disk type. *J. Electronmicroscopy.* 2(1):40-4. 1954.

Kobayashi, K. & Y. Uchinoumi 2010  
Reformation of microfibril and microfibril. Electronmicroscope study of the viscose hardening (1). *Chemical Fiber Lab. of Japan, Kyoto Univ. 12th Lecture.* :159-87. 1955.

Kobayashi, Tadayoshi & Yonosuke Watanabe 2011  
A simple sectioning technique for electron microscopy. *Keio J. Med.* 1:199-209. 11/52.

Koberstein, E. 2012  
Ein Beitrag zur elektronenmikroskopischen Darstellung der Oberflächen kleiner Teilchen. *Monatsh. Chem.* 85(6):1287-94. 1954.

Koberstein, E. 2013  
Über eine Lamellenstruktur beim Sinterkorund. *Z. anorg. u. allgem. Chem.* 279(3/4) 194-204. 1955.

Koch, Lisel 2014  
Die Anwendung der Elektronenmikroskopie zum Studium metallkundlicher Probleme. *Siemens-Entwicklungsgeschichte*. 14:366-77. 1951.

Koch, W. 2015  
Mikroanalytische Aufgaben in Metallkunde und Metallurgie. *Angew. Chem.* 64:187-95. 4/7/52.

Koda, Shigeyasu & Taro Takeyama 2016  
Electron microscopic studies on precipitation from an aluminium-silver alloy. *J. Electronmicroscopy.* 1(1):39-42. 1953.

Koenig, H. 2017  
The formation of absorbed layers in vacuum chambers and their detection by electrons. *Vacuum.* 3(1):3-10. 1953.

Koenig, Harold 2018  
Cytoplasmic nucleoprotein of living nerve cells grown in vitro. *J. Histochem. Cytochem.* 2(5):334-40. 1954.

Koenig, John H. & S. C. Lyons 2019  
Correlation of kaolinite crystal shape with particle size and some effects on ceramic behavior. *Ceram. Age.* 65(4):26. 1955.

Koerber, Walter L., George Greenspan & A. F. Langlykke 2020  
Observations on the multiplication of phages affecting *Streptomyces griseus*. *J. Bacteriol.* 60(1):29-37. 7/50.

Köhler, E. & O. Bode 2021  
Elektronenmikroskopische Untersuchung des Kartoffel-X-Virus. *Naturwissenschaften.* 38:355. 1951.

Köhler, E. & O. Bode 2022  
Elektronenmikroskopische Untersuchung des Tabakmosaikvirus. *Naturwissenschaften.* 18:413. 1951.

Kölbel, Hermann 2023  
Untersuchungen am *Mycobacterium tuberculosis*. II. Mitteilung. Granulum und Vakuole bei licht- und elektronenmikroskopischer Abbildung. *Z. Naturforsch.* 8b(11):631-6. 1953.

Kölbel, Hermann 2024  
Untersuchungen am *Mycobacterium tuberculosis*. III. Mitt: Licht- und elektronenmikroskopischer Nachweis des extrazellulären Auftretens von Granula und Metaphosphatkörnchen. *Z. Naturforsch.* 10b(8):433-6. 1955.

König, H. 2025  
Elektronenmikroskopie des Staubes. *Wiss. Forschungsber.* 60:188-94. 1950.

König, Hans 2026  
Schlierenoptik im Elektronenmikroskop. *Naturwissenschaften.* 37:486-90. 1950.

König, H. 2027  
Zur Veränderung von Kristallen im Elektronenmikroskop. *Optik.* 7:261-2. 10-12/50.

König, Hans 2028  
Untersuchung von Glas mit Elektronen. *Glastech. Ber.* 24(7):167-71. 1951.

König, Hans 2029  
Verkohlung organischer Objekte durch Elektronen. *Z. Phys.* 129:483-90. 1951.

König, Hans 2030  
Zur Veränderung von MoO<sub>3</sub>-Kristallen im Elektronenmikroskop. *Z. Phys.* 130:483-92. 10/51.

König, H. 2031  
Elektronenmikroskopische Untersuchungen an silikotischen Lungen. *Chimie & industrie.* 68: 549. 1952, and Staub. 28:31-8. 1952.

König, H. & G. Helwig 2032  
Über die Struktur schräg aufgedampfter Schichten und ihr Einfluss auf die Entwicklung submikroskopischer Oberflächenrauigkeiten. *Optik.* 6:111-24. 2/50.

König, Hans & G. Helwig 2033  
Über dünne aus Kohlenwasserstoffen durch Elektronen- oder Ionenbeschuss gebildete Schichten. *Z. Phys.* 129:491-503. 1951.



- Koonce, S. Eloise & S. M. Arnold 2034  
Metal whiskers. J. Appl. Phys. 24(3):365-6. 1953, and J. Appl. Phys. 25(1):134-5. 1954.
- Koster, Lewis W. 2035  
A time-lapse cinephotomicrographic apparatus. J. Biol. Phot. Assoc. 21(3):24-7. 8/53.
- Kozinshi, A. W. & Z. Opara 2036  
Experiments with substrates of bacterial viruses. Reversibility of reaction and destruction of the substrate. (in Polish) Bull. acad. polon. sci. 2:39-44. 1954, and Med. dośw. mikrob. 6:253-63. 1954.
- Kozloff, L. M. & K. Henderson 2037  
Action of complexes of the zinc group metals on the tail protein of bacteriophage T<sub>2</sub>+. Nature. 176:1169-71. 12/17/55.
- Kožoušek, Vladimír 2038  
The electron microscopic study of the trachoma virus. Ceskoslov. Oftā. 9(3):194-8. 1953.
- Kožoušek, V. & J. Kožoušková (Kozousco) 2039  
The morphology of herpes zoster virus and the activity of some antibiotics. Lekarské Listy. 8:541-2. 1953.
- Kožoušek, V. & J. Kožoušková (Kozousco) 2040  
Electron microscopical studies of the morphology of herpes zoster virus and the activity of some antibiotics. Rev. Brasil. Med. 12(8):519-20. 1955.
- Kraneveld, F. C., A. L. Houwink & H. J. W. Keidel 2041  
Electron microscopical investigations on trypanosomes. I. Some preliminary data regarding the structure of *Trypanosoma evansi*. Koninkl. Ned. Akad. Wetenschap. Proc. Amsterdam. 54:393-9. 1951.
- Kranjc, Katarina 2042  
The influence of packing density on the small-angle X-ray scattering of a polydisperse colloid system. J. Colloid Sci. 10(6):540-50. 12/55.
- Kratky, O. & G. Porod 2043  
Zur Kleinwinkelstreuung der Cellulose. (Der Lorentzfaktor in seiner Bedeutung für die Streuung parallelepipedischer Körper.) Z. Elektrochem. 58(10):918-23. 1954.
- Krieg, Aloysius 2044  
Licht-und elektronenmikroskopische Untersuchungen zur Pathologie der "Lorscher Erkrankung" von Engerlingen und zur Zytologie der *Rickettsia melolonthae* nov. spec. Z. Naturforsch. 10b(1):34-7. 1955.
- Krieg, Aloysius 2045  
Untersuchungen über die Polyedrose von Neodiprion sertifer (Geoffr.) Arch. ges. Virusforsch. 6(2):163-74. 1955.
- Krieg, Aloysius 2046  
Untersuchungen zur Wirbeltier- Pathogenität und zum serologischen Nachweis der *Rickettsia melolonthae* im Arthropod-Wirt. Naturwissenschaften. 42(22):609-10. 1955.
- Kriss, A. E. 2047  
Structure of bacteriophage. (in Russian) Uspekhi Sovremennoi Biol. 36:346-66. 1953.
- Kriss, A. E. & V. I. Biryuzova 2048  
Autolysis and lysis of the bacterial cell. 1. Electron microscopical picture of the autolysis of the bacterial cell. (in Russian) Zhurnal Obshchei Biol. 11:381-90. 1950.
- Kriss, A. E. & V. I. Biryuzova 2049  
Autolysis and lysis of the bacterial cell. 2. Cytomorphological changes in the bacterial cell while acted on by gramicidin. (in Russian) Zhurnal Obshchei Biol. 11:434-7. 1950.
- Kriss, A. E. & V. I. Biryuzova 2050  
Acceleration of the processes of bacterial cell destruction under the influence of some substances. (in Russian) Priroda. 1951(5):36-47. 1951.
- Kriss, A. E. & V. I. Biryuzova 2051  
Autolysis and lysis of the bacterial cell. 3. Formalin as a lytic agent. (in Russian) Zhurnal Obshchei Biol. 12:211-24. 1951.
- Kriss, A. E. & A. S. Tikhonenko 2052  
Structure of the bacteriophage corpuscle. (in Russian) Doklady Akad. Nauk. SSSR. 86:421-3. 1952.
- Kriss, A. E. & A. S. Tikhonenko 2053  
The unwinding of the spiral which forms the head of the bacteriophage under the influence of high pressures. (in Russian) Doklady Akad. Nauk. SSSR. 93:353-6. 1953.
- Kriss, A. E. & A. S. Tikhonenko 2054  
Action of high pressure on the corpuscles of various phages. (in Russian) Mikrobiologiya. 24:677-80. 1955.
- Kronenberg, Klaus J. 2055  
Zur Frage magnetisch gerichteter Gefüge in Dauermagneten. Z. Metallk. 45(7):440-7. 1954.
- Krüger, Friedrich & Karl-Ernst Wohlfarth-Botterman 2056  
Elektronenoptische Beobachtungen an Cilienorganellen. Mikroskopie. 7:121-30. 1952.
- Krüger, Friedrich, Karl-Ernst Wohlfarth-Botterman & Gerhard Pfefferkorn 2057  
Protistenstudien III. Die Trichocysten von *Uronema marinum* Dujardin. Z. Naturforsch. 7b:407-10. 7/52.
- Krüger-Thiemer, Ekkehard 2058  
Elektronenmikroskopische Dichtemessungen an Bakterien. VI Cong. Int. Microbiol., Rome, 9/6-12/53, Atti. 1:809-13.
- Krüger-Thiemer, Ekkehard 2059  
Ein Verfahren für elektronenmikroskopische Massendickemessungen an nichtkristallinen Objekten. Z. wiss. Mikroskop. 62(7):444-9. 10/55.
- Kuadzhe, M. I. 2060  
Composition and properties of montmorillonite clays. (in Russian) Trudy Mineral. Muzeya, Akad. Nauk. SSSR. 5:165-80. 1953.
- Kubo, Terichiro & H. Akabori 2061  
Fine structure of asbestos and its change by heating. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :489-90. Paris, Ed. Rev. Optique, 1953.
- Küchenhoff, O. & T. Küchenhoff 2062  
Elektronenmikroskopische Untersuchungen an



- virusinfizierten Gewebekulturen. Z. ges. inn. Med. u. ihre Grenzgebiete. 10(8):403-7. 1955.
- Küchle, Hans-Joachim, Arnold Loeser, Gerda Meyer, Carl Gottfried Schmidt & Egon Stürmer 2063  
Tabakrauch. Ein Beitrag zur Wirkung von Tabakfeuchthaltemitteln. Z. ges. exptl. Med. 118:554-72. 1952.
- Kuhlmann-Wilsdorf, P., J. H. van der Merwe, & H. Wilsdorf 2064  
Elementary structure and slip band formation in aluminium. Phil. Mag. 43:632-44. 1952.
- Kuhlmann-Wilsdorf, D. & Heinz Wilsdorf 2065  
The surface structures of deformed aluminium, copper, silver, and alpha-brass, and their theoretical interpretation. Acta Met. 1:394-413. 1953.
- Kumai, Motoi 2066  
Electron-microscope study of snow crystal nuclei. J. Meteorol. 8(3):151-6. 6/51.
- Kunkel, W. B. 2067  
The static electrification of dust particles on dispersion into a cloud. J. Appl. Phys. 21:820-32. 8/50.
- Kuroha, Ippei, Tsunebumi Sakurai & Hidetsugu Tsuchikura 2068  
An ultra microtome using elastic deformation of steel as a feed mechanism. J. Electronmicroscopy. 1(1):46-8. 1953.
- Kurov, G. A. 2069  
Structure of oxidized films of some magnesium alloys. (in Russian) Trudy Inst. Krist. Akad. Nauk S.S.S.R. 11:134-9. 1955.
- Kushnir, U. M. 2070  
On the study of the structure of meteorites with the aid of the electron microscope. (in Russian) Meteoritika. 7:149-50. 1950.
- Kushnir, U. M., L. M. Biberman & N. P. Levkin 2071  
Reflection electron microscope (EM-100). Izvestiia Akad. Nauk S.S.S.R. 15(3):306-16. 1951.
- Kushnir, U. M. & L. I. Zemlianova 2072  
Methods of obtaining an oxide replica of brass. Zavodskaya Lab. 3:325-7. 1950.
- Kuwabara, Shigeya 2073  
A study of anomalous refraction effect in electron diffraction. Part I. Magnesium oxide and cadmium oxide smokes. Part II. Zinc-oxide smoke. J. Sci. Hiroshima Univ. Ser. A. 17(1):111-3. 8/53, and 17(2):221-8. 8/53.
- Labaw, Louis W. & V. M. Mosley 2074  
Demonstration of striated fibers in the capsule of the Lisbon strain of lysogenic *Escherichia coli*. J. Bacteriol. 67(5):576-84. 1954.
- Labaw, L. W. & V. M. Mosley 2075  
Periodic structure in the flagella and cell walls of a bacterium. Biochim. et Biophys. Acta. 15:325-31. 1954.
- Labaw, L. W. & V. M. Mosley 2076  
Periodic structure in the flagella of *Bruccella bronchiseptica*. Biochim. et Biophys. Acta. 17:322-4. 1955.

- Labaw, Louis W., Vernon M. Mosley & Ralph W. G. Wyckoff 2077  
Electron microscopy of ultraviolet irradiated bacteria and their interaction with bacteriophage. Biochim. et Biophys. Acta. 5:327-34. 3/50.
- Labaw, Louis W., Vernon M. Mosley & Ralph W. G. Wyckoff 2078  
Development of bacteriophage in X-ray inactivated bacteria. J. Bacteriol. 65:330-6. 3/53.
- Labaw, L. W. & R. W. G. Wyckoff 2079  
Molecular arrangement in crystals of the southern bean mosaic virus protein. Nature. 176:455. 9/3/55.
- Lachapele, Blanquet, Meunier & Capot 2080  
Images au microscope électronique de stromas de globules rouges obtenus avec divers agents hémolytants. J. méd. Bordeaux et Sud-Ouest. 129(12):1138-44. 1952.
- Ladd, W. A., W. M. Hess & M. W. Ladd 2081  
An X-ray microscope. (Abstract, Paper #24, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26:1395. 1955.
- Ladd, W. A. & M. W. Ladd 2082  
Carbon gel as revealed by the electron microscope. Industr. Engng. Chem. 43:2564. 11/51.
- Ladeburg, R. C., R. H. Larson & J. C. Walker 2083  
Origin, interrelation and properties of ringspot strains of virus X in American potato varieties. Research Bulletin 165, Agricultural Experiment Station, University of Wisconsin, Madison, Wisconsin. January, 1950. 47p.
- Laden, Edward L., John O. Erickson & Dorothy Armen 2084  
Electron microscopic study of epidermal prickle cells. J. Invest. Dermatol. 19(3):211-15. 9/52.
- Laden, Edward L., Irwin Linden, John O. Erickson & Dorothy Armen 2085  
Electron microscopic study of epidermal basal cells and epidermal dermal junction. J. Invest. Dermatol. 21(1):37-41. 7/53.
- Laden, Edward L., Irwin Linden & J. O. Erickson 2086  
Study of normal skin with the electron microscope. Arch. Dermatol. and Syphilol. 71:219-23. 2/55.
- Lagermalm, Gösta & Bo Philip 2087  
The action of alkali on the epicuticle of wool. Textile Research J. 20:668-70. 10/50.
- Lagermalm, Gösta, Bo Philip & Nils Gralén 2088  
Occurrence of a network in the excrement from the larva of the clothes moth. Nature. 166:484-5. 9/16/50.
- Lagermalm, Gösta, Bo Philip & Joel Lindberg 2089  
Occurrence of thin membranes in the surface layers of human skin and in finger nails. Nature. 168:1080-1. 12/22/51.
- Laird, Anna K., O. Nygaard, H. Ris & A. D. Barton 2090  
Separation of mitochondria into two morphologically and biochemically distinct types. Exptl. Cell Research. 5(1):147-60. 1953.

Lamb, W.G.P., J. Stuart-Webb, L. G. Bell,  
R. Bovey & J. F. Danielli 2091  
Specific stains for electron microscopy.  
Exptl. Cell Research. 4(1):159-63. 1953.

Langford, George C., Jr., John E. Faber, Jr.  
& Michael J. Pelczar, Jr. 2092  
The occurrence of anaerobic gram-negative  
diplococci in the normal human mouth. J.  
Bacteriol. 59:349-56. 3/50.

Langner, G. 2093  
Die Erprobung einiger regelbarer permanent-  
magnetischer Elektronenlinsen. Optik. 12:554-  
62. 1955.

Langner, G. & F. Lenz 2094  
Die Ausmessung magnetischer Felder an  
massstäblichen Modellen unter Berücksichti-  
gung der Sättigungserscheinungen. Optik. 11:  
171-80. 1954.

Langham, U. N. 2095  
Observations on the supposed intracellular  
symbiotic microorganisms of aphids. Science.  
115:459-60. 4/25/52.

Lansing, A. I., T. B. Rosenthal, M. Alex  
& E. W. Dempsey 2096  
The structure and chemical characterization  
of elastic fibers as revealed by elastase  
and by electron microscopy. Anat. Record.  
114(4):555-76. 12/52.

Larson, R. H., R.E.F. Matthews & J. C.  
Walker 2097  
Relationships between certain viruses  
affecting the genus Brassica. Phytopathology.  
40:955-62. 10/50.

Lasko, William H. 2098  
Electron microscope study of crystallized  
titanium dioxide particles in vitreous enamels.  
(Abstract, Paper #22, Electron Microscope Soc-  
iety of America Meeting, Philadelphia, Pa.,  
12/8-10/51.) J. Appl. Phys. 23:159. 1/52.

Lasko, William R. & Lawrence S. White 2099  
Study of linseed oil at the surface of  
titanium dioxide pigment by high resolution  
electron micrography. (Abstract, Paper #29,  
Electron Microscope Society of America Meeting,  
Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys.  
24:1417. 11/53.

Lasko, William R. & Lawrence S. White 2100  
Linseed oil at the surface of titanium  
dioxide pigment. Anal. Chem. 26:1631. 10/54.

Latta, Harrison 2101  
The surface of the mammalian erythrocyte.  
An electron microscope study of the effect  
of lipid solvents, fixatives, hypotonicity,  
and hemolysin (amboceptor) and complement.  
Blood. 7:508-21. 5/52.

Latta, Harrison & J. Francis Hartmann 2102  
Use of a glass edge in thin sectioning for  
electron microscopy. Proc. Soc. Exptl. Biol.  
Med. 74:436-9. 6/50.

Laudet, Michel 2103  
Potentiel et champ d'une lentille élec-  
trostatique cylindrique à trois fentes.  
Cahiers phys. 41:73-80. 1/53.

Laudet, M. 2104  
Optique électronique des systèmes

cylindriques présentant un plan de symétrie.  
II. Les aberrations. J. phys. radium.  
16:908-16. 12/55.

Laudet, M. & P. Pilod 2105  
Potentiel d'une lentille électronique élec-  
trostatique. Comparaison des résultats du  
calcul numérique et des mesures faites à la  
cuve rhéographique. J. phys. radium. 14:323-8.  
5/53.

Lauffer, Max A. 2106  
Purity determination with the electron  
microscope. J. Am. Chem. Soc. 73:2370-1. 5/51.

Lawson, J. D. 2107  
Some experiments on a cylindrical electron  
beam constrained by a magnetic field. J.  
Electronics. 1(1):43-52. 1955.

Laxer, G., J. Sikorski, C. S. Whewell &  
H. J. Woods 2108  
The electron microscopy of melanin granules  
isolated from pigmented mammalian fibres.  
Biochim. et Biophys. Acta. 15:174-85. 1954.

Lecce, J. G., F. G. Sperling, L. Hayflick &  
W. Stinebring 2109  
Tendovaginitis with arthritis, a new syndrome  
of chickens: isolation and characterization of  
an infectious agent. J. Exptl. Med. 102:489-  
98. 10/55.

Lees, C. S. 2110  
Electron microscope studies of particle  
size in ammonium diuranate. Atomic Energy  
Research Establ., G. Brit., Harwell, Report  
A.E.R.E. G/M 38, 1955. 2p.

Leet, Richard H. 2111  
Thickener-particle dimensions and lubricat-  
ing-grease consistency. Inst. Spokesman, Natl.  
Lubricating Grease Inst. 19(1):20-3. 1955.

Lefker, Robert, William F. Nye & Alvin E.  
Bills 2112  
Electron microscope studies of silicon pro-  
duced by vapor phase decomposition. (Abstract,  
Paper #12, Electron Microscope Society of Am-  
erica Meeting, University Park, Pa., 10/27-9/55.)  
J. Appl. Phys. 26:1392. 1955.

Lehmann, F. E. 2113  
Globuläre Partikel als submikroskopische  
Elemente des tierischen Zytoplasmas. Exper-  
ientia. 6:382-4. 10/50.

Lehmann, F. E. 2114  
Nukleinsäurehaltige Cytoplasmapartikel als  
Objekte cytochemischer und elektronenmikros-  
kopischer Untersuchungen. Arch. Julius Klaus-  
Stift Vererbungsforsch. Sozialanthropol u.  
Rassenhyg. 29(3/4):288-95. 1954.

Lehmann, F. E. 2115  
Die Submikroskopische Organisation der Zelle.  
Klin. Wochschr. 33(13/14):294-300. 1955.

Lehmann, F. E. & H. R. Wahli 2116  
Histochemische und Elektronenmikroskopische  
Unterschiede im cytoplasma der Beiden Somato-  
blasten des Tubifexkeimes. Z. Zellforsch. u.  
mikrosop. Anat. 39:618-29. 1954.

Lehmann, F. E. & Hans R. Wahli 2117  
Modellversuche an Kaseinaten über die aequi-  
valente fixation submikroskopischer Strukturen.  
Exptl. Cell Research, Suppl. 3:230-40. 1955.



- Leisegang, S. 2118  
Zum Astigmatismus von Elektronenlinsen.  
Optik. 10:5-14. 1953.
- Leisegang, S. 2119  
Ein einfacher Stigmator für magnetische  
Elektronenlinsen. Optik. 11(2):49-60. 1954.
- Leisegang, S. 2120  
Zur Zentrierung magnetischer Elektronen-  
linsen. Optik. 11:397-406. 1954.
- Lelli, Giovanni 2121  
Algunas modificaciones químicas del colágeno  
vistas al microscopio electrónico. Jornada  
méd. Buenos Aires. 6:397-9. 1952.
- Lelli, Giovanni 2122  
L'ultrastruttura del tessuto collagene  
studiata al microscopio elettronico. Ricerca  
Sci. 22 Suppl. Chimica strutturistica. :1-14.  
1952.
- Lelli, Giovanni 2123  
Spunti di microscopia elettronica nelle  
malattie reumatiche. In Trattato di Reumatolo-  
gia. Milano, Casa Edit. Dot. Fran. Vallardi,  
1954. :1081-4.
- Lelli, Giovanni 2124  
Osservazioni di microscopia elettronica  
sulle malattie del collagene. Rend. Ist.  
super sanità. 18:48-56. 1955, and Policlin-  
ico. 62:627-32. 5/55.
- Lelli, G., A. Bonanome, R. Begani &  
M. Sappa 2125  
Le fibrille collagene dell'avventizia di  
arterie liofilizzate viste al microscopio  
elettronico. Rend. ist. super. sanità.  
16:175-82. 1953.
- Lelli, Giovanni & Ugo Marotta 2126  
Il collagene di alcune forme tumorali della  
mammella visto al microscopio elettronico.  
Rend. ist. super. sanità. 13:503-12. 1950.
- Lelli, Giovanni & Ugo Marotta 2127  
Contributo alla conoscenza dell'ultrastrut-  
tura delle fibrille collagene al microscopio  
elettronico. Rend. ist. super. sanità. 13:518-  
33. 1950.
- Lelli, Giovanni & Ugo Marotta 2128  
Observations ultérieures sur le collagène  
du stroma de quelques formes tumorales de la  
mamelle vues au microscope électronique. Acta  
Unio. internationalis cancerum. Brux. 7:695-8.  
1951.
- Lelli, Giovanni & Ugo Marotta 2129  
Beiträge zum Studium der Ultrastruktur der  
Kollagenfibrillen im Elektronenmikroskop. Kol-  
lagen und Hyaluronidase (erste Beobachtungen).  
Z. wiss. Mikroskop. 60:359-63. 3/52.
- Lelli, Giovanni & Ugo Marotta 2130  
Contribution à la connaissance de l'ultra-  
structure des fibrilles collagènes au micro-  
scope électronique. 1st Int. Cong. Electron  
Micros., Paris, 1950. Proc. :740-50. Paris,  
Ed. Rev. Optique, 1953.
- Lelli, G. & M. Sappa 2131  
Observations au microscope électronique  
sur le comportement du collagène dans les  
solutions acides selon l'âge. Rapport
- Europées Congrès. Toeg. Em. Gent, 4/7-10/54.  
:157-60.
- Lelli, G. & M. Sappa 2132  
Osservazioni al microscopio elettronico sul  
comportamento del collagene prelevato da sog-  
getti umani di età diversa e trattato con  
soluzioni acquose di acido lattico. Rend. ist.  
super. sanità. 18:43-7. 1955.
- Lemke, Andreas 2133  
Haben Bakterien einen Zellkern? Zentr.  
Bakteriol. Parasitenk. Abt. I. Orig. 156:377-  
80. 1951.
- Lenz, Friedrich 2134  
Annäherung von rotationssymmetrischen Poten-  
tialfeldern mit zylindrischen Äquipotential-  
flächen durch eine analytische Funktion. Ann.  
Physik. 8(3/4):124-8. 1950.
- Lenz, F. 2135  
Berechnung der Feldverteilung längs der Achse  
magnetischer Elektronenlinsen aus Polschuhab-  
messungen und Durchflutung. Optik. 7:243-53.  
1950.
- Lenz, Friedrich 2136  
Berechnung optischer Kenngrößen magnetischer  
Elektronenlinsen aus Polschuhabmessungen und  
Betriebsdaten. Z. angew. Phys. 2:448-53. 11/50.
- Lenz, Friedrich 2137  
Berechnung optischer Kenngrößen magnetischer  
Elektronenlinsen vom erweiterten Glockenfeldtyp.  
Z. angew. Phys. 2:337-40. 8/50.
- Lenz, Friedrich 2138  
Hochauflösende Geschwindigkeitsanalyse mit  
magnetischen Elektronenlinsen. Naturwissen-  
schaften. 22:524-5. 1951.
- Lenz, F. 2139  
Ein einfaches Verfahren zur Bestimmung der  
Feldform magnetischer Elektronenlinsen.  
Optik. 9:3-18. 1952.
- Lenz, F. 2140  
Die Elektronenmikroskopie in der Sowjetunion.  
Z. wiss. Mikroskop. 61:92-4. 8/52.
- Lenz, Friedrich 2141  
Zur Einfachstreuung schneller Elektronen  
in kleine Winkel. Naturwissenschaften. 39  
(11):265. 1952.
- Lenz, Friedrich 2142  
Die magnetische Linse als Geschwindigkeits-  
analysator. Optik. 10:28. 1953.
- Lenz, F. 2143  
Über das chromatische Auflösungsvermögen von  
Elektronenlinsen bei der Geschwindigkeitsanalyse.  
Optik. 10:439-46. 1953.
- Lenz, F. 2144  
Die Bestimmung der Größenverteilung von in  
einem Festkörper eingebetteten kugelförmigen  
Teilchen mit Hilfe der durch einen ebenen Schnitt  
erhaltenen Schnittkreise. Optik. 11:524-7. 1954.
- Lenz, Friedrich 2145  
Zur Streuung mittelschneller Elektronen in  
kleinsten Winkel. Z. Naturforsch. 9a(3):185-  
204. 1954.
- Lenz, F. & M. Hahn 2146  
Die Untersuchung der Unsymmetrie magnetischer  
Polschuhlinsen im schwach unterteleskopischen



Strahlengang. Optik. 10:15-27. 1953.

Lenz, F. & Max Hahn 2147  
Zwei Kunstgriffe beim Experimentieren am  
Elektronenmikroskop. Z. wiss. Mikroskop. 62  
(3):224-6. 1955.

Lenz, Hans 2148  
Elektronenmikroskopische Untersuchungen  
am normalen und kariösen Dentin. Berlin  
Gesd'bl. 19:498-502. 1955.

Lenz, Hans 2149  
Elektronenmikroskopischer Nachweis der Dentin-  
veränderungen durch Karies. Deut. Zahn- Mund-  
u. Kieferheilk. 22(1/2):24-33. 1955.

Leon, Joseph L. 2150  
A calibrated stage for the R.C.A. electron-  
microscope. Rev. Sci. Instr. 23:189-90. 4/52.

Leonard, B. R., Jr., J. W. Anderegg, Paul  
Kaesberg & W. W. Beeman 2151  
The size of latex particles by x-ray  
scattering. J. Appl. Phys. 23:152. 1/52.

Leonhard, F. 2152  
Ausnutzung der elektronenmikroskopischen  
Tiefenschärfe für die Aufnahmen geringer Ver-  
größerung. Optik. 11:407-11. 1954.

Leonhard, Friedrich 2153  
Ein Verfahren zur thermoplastischen Ziel-  
präparation. Z. wiss. Mikroskop. 62(2):129-37.  
1954.

Leon'tev, E. A. & V. M. Lyk'yanovich 2154  
Application of the replica method to the  
electron microscopic study of silica gel and  
porous glass. (in Russian). Doklady Akad.  
Nauk.S.S.S.R. 103:1039-40. 1955.

Lépine, P. 2155  
Light and electron microscopical observa-  
tions of nerve fibers treated with chemical  
and bacterial enzymes. (Abstract, Paper #31,  
Electron Microscope Society of America Meeting,  
Detroit, Michigan, 9/14-6/50.) J. Appl. Phys.  
22:114. 1951.

Lépine, Pierre 2156  
Aspects morphologiques du développement  
intracellulaire des virus. Symposium: Inter-  
action of Viruses and Cells. Rome, 9/7-11/53.  
Rome, ist. super. sanità, 1953. :44-53.

Lépine, P. 2157  
Le virus coxsackie et ses rapports avec  
la maladie de Bornholm. Semain hôp. 29(69):  
3533-8. 1953.

Lépine, P. 2158  
La biologie du bacille de Koch étudiée au  
microscope électronique. Presse méd. 63(10):  
199. 2/9/55.

Lépine, P., P. Atanasiu & O. Croissant 2159  
Structure des fibres nerveuses au micro-  
scope électronique. Conf. of Electron Micros.,  
Delft, 7/49. Proc. The Hague, Nijhoff, 1950.  
:137.

Lépine, Pierre & Odile Croissant 2160  
Étude au microscope électronique de la  
structure de la fibre nerveuse. L'Union méd.  
Canada. 80:217. 2/51.

Lépine, P. & O. Croissant 2161

Étude morphologique au microscope électro-  
nique des particules submicroscopiques d'amiant  
contenues dans l'air. Ann. inst. Pasteur.  
80:305-8. 1951.

Lépine, P. & O. Croissant 2162  
Microscopie électronique des corps de Negri  
dans la rage des rues. Méthode de repérage et  
d'examen des coupes histologiques en microscopie  
électronique. Ann. inst. Pasteur. 81:1-8. 7/51.

Lépine, M. P. & O. Croissant 2163  
Application de la microscopie électronique  
au diagnostic de la variole. Presse méd.  
67:1427-8. 10/52.

Lépine, P. & Odile Croissant 2164  
Application de la technique histologique à  
la microscopie électronique. Bull. microscop.  
appl. 3(11/12):141-8. 1953.

Lépine, Pierre & Odile Croissant 2165  
Contribution du microscope électronique au  
diagnostic des fièvres éruptives. Bull. micro-  
scop. appl. 5(1/2):22-3. 1955.

Lépine, P. & Roger Sohier 2166  
Techniques de laboratoire appliqués au diag-  
nostic des maladies à virus. Paris, Masson,  
1954. 479p.

Lépine, P., O. Croissant, P. Corneut & C.  
Martin 2167  
Essais d'extraction du virus de la Mosaïque  
du Dahlia (Marmor dahliae Holmes) et examen au  
microscope électronique des produits obtenus.  
Ann. inst. Pasteur. 80:669-72. 6/51.

Lépine, P., C. Vago & O. Croissant 2168  
Mise en évidence au microscope électronique  
du virus de la polyédrie de Plusia gamma L.  
(Lepidoptera). Ann. inst. Pasteur. 85:170. 8/53.

Le Poole, J. B. 2169  
Electron microscopes. Conf. of Electron  
Micros., Delft, 7/49. Proc. The Hague, Nijhoff,  
1950. :21-6.

Le Poole, J. B. & W. A. Rutte 2170  
Correction and detection to astigmatism.  
Conf. of Electron Micros., Delft, 7/49. Proc.  
The Hague, Nijhoff, 1950. :84-5.

Levaditi, C. 2171  
L'adsorption des virus sur les hématies,  
étudiée au moyen du microscope électronique.  
Presse méd. 58:349-50. 4/5/50.

Levavasseur, G., H. Troitzsch & G. Chaume 2172  
Dispersion de la cellulose par les ultra-  
sons; observations au microscope électronique.  
Assoc. tech. ind. papetière, Bull. 175-7. 1954.

Lever, J. D. 2173  
Electron microscopic observations on the  
adrenal cortex. Am. J. Anat. 97(3):409-30. 11/55.

Lever, J. D. 2174  
Electron microscopic observations on the  
normal and denervated adrenal medulla of the  
rat. Endocrinology. 57(5):621-35. 11/55.

Lever, W. F. 2175  
.Collagen and reticulum. Excerpta Med.  
XIII. :475-7. 12/55.

Levine, Seymour, T. T. Puck & B. F. Sagik 2176  
An absolute method for assay of virus

hemagglutinins. J. Exptl. Med. 98(6):521-31. 1953.

Levinthal, C. & H. W. Fisher 2177  
Macromolecular structures in a bacterial virus-host complex. (Abstract, Paper #40, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:163. 1/52.

Levinthal, C. & H. Fisher 2178  
The structural development of bacterial virus. Biochim. et Biophys. Acta. 9:419-29. 1952.

Levinthal, C. & H. W. Fisher 2179  
Maturation of phage and the evidence of phage precursors. Cold Spring Harbor Symposia Quant. Biol. 18:29-33. 1953.

Lewin, R. A. & J. O. Meinhardt 2180  
Studies on the flagella of algae. III. Electron micrographs of Chlamydomonas moewusii. Can. J. Botany. 31:711-7. 11/53.

Lewin, Ralph A., M. Josephine Owen & Joseph L. Melnick 2181  
Cell-wall structure in Chlamydomonas. Exptl. Cell Research. 2:708-10. 1951.

Leyon, H. 2182  
Some physico-chemical properties of spontaneous mouse encephalomyelitis virus, strain FA. Exptl. Cell Research. 2:207-23. 1951.

Leyon, H. 2183  
The size of spontaneous mouse encephalomyelitis virus strain FA, as determined by electron microscopy. Exptl. Cell Research. 4:499-500. 5/53.

Leyon, H. 2184  
The structure of chloroplasts. An electron microscopical investigation of sections. Exptl. Cell Research. 4:371-82. 5/53.

Leyon, H. 2185  
The structure of chloroplasts. II. First differentiation of the chloroplast structure in Vallota and Taraxacum studied by means of electron microscopy. Exptl. Cell Research. 5(2):520-9. 1953.

Leyon, H. 2186  
Virus formation in chloroplasts. Exptl. Cell Research. 4:362-70. 5/53.

Leyon, H. 2187  
The structure of chloroplasts. IV. The development and structure of the Aspidistra chloroplast. Exptl. Cell Research. 7:265-73. 1954.

Leyon, H. & S. Gard 2188  
Electron microscopy of Theiler's virus, strain FA. Biochim. et Biophys. Acta. 4:385-90. 1950.

Leyon, Hakan & Dietrich von Wettstein 2189  
Der Chromatophoren-Feinbau bei den Phaeophyceen. Z. Naturforsch. 9b(7):471-5. 1954.

Lhoest, M. T., A. Bolle & M. A. Mirimanoff 2190  
Action du laurylsulfate de sodium (Duponol C) sur quelques microorganismes. Bull. soc. pharm. Bordeaux. 94(Special):113-22. 1955.

Lieb, M., J. J. Weigle & E. Kellenberger 2191  
A study of hybrids between two strains of Escherichia coli. J. Bacteriol. 69:468-71. 4/55.

Liebermeister, Kurt 2192  
Untersuchungen zur Morphologie der Pleuropneumonia-(PPLO-) Gruppe. Z. Naturforsch. 8b(12):757-66. 1953.

Liebermeister, Kurt 2193  
Ein Verfahren zur Anwendung der Agarfixation in der Elektronenmikroskopie. Z. Naturforsch. 8b(12):755-7. 1953.

Liebmann, G. 2194  
A method for the mapping of vector potential distributions in axially symmetrical systems. Phil. Mag. 41:1143-51. 1950.

Liebmann, G. 2195  
German Society for Electron Microscopy. Third annual conference. Hamburg, 5/19-20/51. Nature. 168:70-1. 7/14/51.

Liebmann, G. 2196  
The symmetrical magnetic electron microscope objective lens with lowest spherical aberration. Proc. Phys. Soc. London. 64B:972-7. 11/51.

Liebmann, G. 2197  
The magnetic electron microscope objective lens of lowest chromatic aberration. Proc. Phys. Soc. London. 65B:188-92. 1952.

Liebmann, G. 2198  
Magnetic electron microscope projector lenses. Proc. Phys. Soc. London. 65B:94-108. 2/1/52.

Liebmann, G. 2199  
The effect of pole piece saturation in magnetic electron lenses. Proc. Phys. Soc. London. 66B:448-58. 1953.

Liebmann, G. 2200  
A unified representation of magnetic electron lens properties. Proc. Phys. Soc. London. 68B:737-45. 1955.

Liese, Walter 2201  
Demonstration elektronenmikroskopischer Aufnahmen von Nadelholzhofthüpfeln. Ber. deut. botan. Ges. 64:31-2. 1951.

Liese, Walter & Margarete Hartmann-Fahnenbrock 2202  
Elektronenmikroskopische Untersuchungen an verblautem Kiefernholz. Holzforschung. 7(4):97-102. 1953.

Liese, Walter & Margarete Hartmann-Fahnenbrock 2203  
Elektronenmikroskopische Untersuchungen über die Hofthüpfel der Nadelhölzer. Biochim. et Biophys. Acta. 11:190-8. 1953.

Liese, Walter & Ingeborg Johann 2204  
Elektronenmikroskopische Beobachtungen über eine Besondere feinstruktur der verholzten Zellwand bei einigen Coniferen. Planta. 44:269-85. 1954.

Liese, Walter & Ingeborg Johann 2205  
Experimentelle Untersuchungen über die Feinstruktur der Hofthüpfel bei den Koniferen. Naturwissenschaften. 41(24):579. 1954.

Linden, Irwin H., Edward Laden, John O. Erickson & Dorothy Armen 2206



Electron microscopic study of normal skin collagen and elastic fibers. J. Invest. Dermatol. 24(2):83-8. 2/55.

Lindner, Erich 2207  
Elektronenmikroskopische Untersuchung von braunen floureszierenden Pigmenten bei Vitamin-E-Mangel. Ärtzl. Forsch. 8(11): I/505-13. 11/10/54.

Lindner, Erich 2208  
Über die Sarkosomen der Herz- und Skelettmuskelfaser. Beitr. pathol. Anat. u. allgem. Pathol. 114(2):244-58. 1954.

Lindner, Erich 2209  
Zur Struktur der Fasern und Fibrillen des Plasmocytom. Ärtzl. Forsch. 8: I/487-I/504. 11/10/54.

Lindner, Erich & Wilhelm Böke 2210  
Elektronenmikroskopische Bilder des Linsen-Epithels und ihre Beziehung zur Struktur der lebenden Zelle. Z. Zellforsch. 40:8-24. 1954.

Linke, Klaus Wilhelm 2211  
Elektronenmikroskopische Untersuchung über die Differenzierung der Interzellularsubstanz der menschlichen Lederhaut. Z. Zellforsch. u. mikroskop. Anat. 42:331-43. 1955.

Linz, R. 2212  
L'aspect microscopique de Mycobacterium tuberculosis dans les cultures en milieu de Dubos. Influence de la streptomycine. Compt. rend. sci. biol. 147:1505. 1953.

Linz, R. 2213  
Evolution morphologique de Mycobacterium tuberculosis dans les cultures en milieu liquide de Dubos sans streptomycine ou avec streptomycine. Compt. rend. soc. biol. 147:1510. 1953.

Lippert, Werner 2214  
Über die Farbabhängigkeit der Vergrößerung beim Elektronenmikroskop als störendem Fehler bei der Untersuchung dickerer Objekte. Z. wiss. Mikroskop. 61:172-9. 10/52.

Lippert, W. 2215  
Experimentelle Studien über den Kontrast im Elektronenmikroskop. Optik. 11:412-21. 1954.

Lippert, W. 2216  
Erfahrungen mit einer Zwischenlinse bei einem Siemens-Elektronenmikroskop alterer Bauart. Optik. 12:274-80. 1955.

Lippert, W. 2217  
Über einige Eigenschaften von elektrostatischen Einzellinsen, deren Achsenpotential fast das Kathodenpotential erreicht. Optik. 12:173-80. 1955.

Lippert, W. & K. Gentil 2218  
Elektronenmikroskopische Studien über micellare Strukturen bei Schmetterlingschuppen vom Morpho-Typ. Z. wiss. Mikroskop. 61:95-100. 8/52.

Lippert, W. & W. Pohlitz 2219  
Zur Kenntnis der elektronenoptischen Eigenschaften elektrostatischer Linsen. I. Optik. 9:456-62. 1952.

Lippert, W. & W. Pohlitz 2220  
Zur Kenntnis der elektronenoptischen Eigenschaften elektrostatischer Linsen. II. Optik. 10:447-54. 1953.

Lippert, W. & W. Pohlitz 2221  
Zur Kenntnis der elektronenoptischen Eigenschaften elektrostatischer Linsen. III. Optik. 11:181-6. 1954.

Liquier-Milward, J. 2222  
Electron microscopy of thymonucleic acid. Biochim. et Biophys. Acta. 10:5-10. 1953.

Little, K. & H. Kramer 2223  
Nature of reticulins. Nature. 170:499-500. 9/20/52.

Little, K. & C. S. Lees 2224  
Uranium shadowing for electron microscopy. J. Sci. Instr. 30:141. 4/53.

Littlefield, John W., Elizabeth B. Keller, Jerome Gross & Paul C. Zamecnik 2225  
Studies on cytoplasmic ribonucleoprotein particles from the liver of the rat. J. Biol. Chem. 217(1):111-23. 11/55.

Lloyd, Bolivar J., Jr. & H. Kahler 2226  
Electron microscopy of the virus of rabbit fibroma. J. Natl. Cancer Inst. 15(4):991-9. 2/55.

Locquin, M. 2227  
Structure de la membrane des spores de myxomycètes. Conf. of Electron Micros., Delft, 7/49. Proc. The Hague, Nijhoff, 1950. :150-1.

Locquin, M. 2228  
Recherche d'objets-tests pour le microscope électronique. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :755-7. Paris, Ed. Rev. Optique, 1953.

Locquin, Marcel 2229  
Structure fine des frustules de la diatomée Amphipleura pellucida. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :751-4. Paris, Ed. Rev. Optique, 1953.

Locquin, Marcel 2230  
Premiers essais de contraste de phase en microscopie électronique. Z. wiss. Mikroskop. 62(3):220-3. 1955.

Locquin, Marcel 2231  
Recherche systématique de modificateurs de contraste par imprégnations sélectives en microscopie électronique. Compt. rend. acad. sci. 240:741-2. 2/14/55.

Lodge, James P. & Barbara J. Tufts 2232  
An electron microscope study of sodium chloride particles as used in aerosol generation. (Abstract, Paper #A17, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1455. 1954.

Lodge, J. P. & Barbara J. Tufts 2233  
An electron microscope study of sodium chloride particles as used in aerosol generation. J. Colloid Sci. 10(3):256-62. 1955.

Löffler, H. J. & H. König 2234  
Zur elektronenmikroskopischen Abbildung von Tropfen aus Wasser und wässrigen Lösungen. Kolloid-Z. 132(2/3):65-73. 1955.

Lofgren, Ruth 2235  
The structure of Leishmania tropica as revealed by phase and electron microscopy. J. Bacteriol. 60:617-25. 1950.

Löpmann, Gesine 2236



"Über die Diffusion von Metallen in gesinter-  
ten Aluminium-Proben. Dissertationen d. Math.  
Naturwiss. Fakultät der Westf. Wilhelms-Univ-  
ersität zu Münster. 3:18-9. 1953.

Low, Frank N. 2237  
The pulmonary alveolar epithelium of lab-  
oratory mammals and man. Anat. Record. 117  
(2):241-64. 10/53.

Low, Frank N. 2239  
The electron microscopy of sectioned lung  
tissue after varied duration of fixation in  
buffered osmium tetroxide. Anat. Record.  
120(4):827-52. 12/54.

Low, Frank N. & C. Wm. Daniels 2240  
Electron micrographs of the pulmonary  
alveolar wall (Abstract) Anat. Record.  
112:456. 2/52.

Low, Frank N. & C. Wm. Daniels 2241  
Electron microscopy of the rat lung.  
Anat. Record. 113:437-50. 8/52.

Lowe, Charles Upton, Deloris Mackinney &  
Daljit Sarkaria 2242  
Effects of cortisone on rat liver mitochon-  
dria. J. Biophys. Biochem. Cytol. 1:237-44.  
5/25/55.

Lower, H. F. 2243  
A granulos virus attacking the larvae  
of *Persectania ewingii* Westw. (Lepidoptera:  
Agrotidae) in South Australia. Australian  
J. Biol. Sci. 7(2):161-7. 1954.

Lowman, F. G. 2244  
Electron microscope studies of silver sal-  
mon spermatozoa (*Oncorhynchus kisutch* (Wal-  
baum)). Exptl. Cell Research. 5(2):335-60.  
1953.

Lucht, C. M. & David Harker 2245  
An X-ray microscope using mirrors of adjust-  
able curvature. Rev. Sci. Instr. 22(6):392-5.  
1951.

Ludemann, H. 2246  
Über die Struktur dünner auf Einkristall-  
unterlagen aufgedampfter Alkalihalogenid-  
schichten. Z. Naturforsch. 9a(3):252-9. 1954.

Ludvík, Jiří 2247  
The study of the cell-morphology of *Tri-  
chomonas foetus* (Riedmüller) with the electron  
microscope. (In Czech) Věstník Českoslov.  
Zool. Společ. 18(3):189-97. 1954.

Ludvík, Jiří 2248  
Zalévání objektů do metakrylátů a řezání  
ultratenkých řezů pro pozorování elektronovým  
mikroskopem. Českoslov. morfol. 2(3):228-34.  
1954.

Lück, H. & F. J. Joubert 2249  
Untersuchungen zur  $H_2O_2$  - Behandlung der  
Milch. II. Milchwissenschaft. 10:370-5. 1955.

Lueg, Werner & Karl-Heinz Treptow 2250  
Schmierstoffe und Schmierstoffträger beim  
Ziehen von Stahldraht. Stahl u. Eisen. 72  
(8):399-416. 1952.

Luria, S. E., Robley C. Williams & Robert  
C. Backus 2251  
Electron micrographic counts of bacter-  
iophage particles. J. Bacteriol. 61:179-87.  
2/51.

Macdonald, John B. 2252  
The motile non-sporulating anaerobic rods  
of the oral cavity. Univ. Toronto (Canada),  
Div. Dental Res., Faculty of Dentistry. 95p.  
1953.

Macdonald, J. B., M. L. Knoll & R. M.  
Sutton 2253  
Motility in a species of non-flagellated  
bacteria. Proc. Soc. Exptl. Biol. Med.  
84:459-62. 1953.

MacDonald, W. W. 2254  
Electron microscopy in the United States.  
Electronics. 23:66-9. 8/50.

MacNaughton, M. M. 2255  
The focal properties and spherical aberration  
constants of aperture electron lenses.  
Proc. Phys. Soc. London. 65B:590-6. 8/1/52.

MacPherson, I. A., J. F. Wilkinson &  
R. H. A. Swain 2256  
The effect of *Klebsiella aerogenes* and  
*Klebsiella cloacae* polysaccharides on haemag-  
glutination by and multiplication of the in-  
fluenza group of viruses. Brit. J. Exptl.  
Pathol. 34(6):603-15. 12/53.

McBrian, Ray 2257  
Possibilities of burning lower cost diesel  
fuels. Am. Soc. Mechanical Engrs. Paper No.  
54-A-250. 8p. 1955.

McCartney, J. T. & R. B. Anderson 2258  
Electron microscopic replica studies of  
porosity in fused iron catalysts. J. Appl.  
Phys. 22:1441-3. 12/51.

McCartney, James T., Bernard Seligman, W.  
Keith Hall & Robert B. Anderson 2259  
An electron-microscopic study of metal  
oxides and metal oxide catalysts. J. Phys.  
& Colloid Chem. 54(4):505-19. 1950.

McClung, Norvel M. 2260  
Morphological studies in the genus  
*Nocardia*. J. Bacteriol. 59:589-602. 4/50.

McCulloch, David 2261  
Fibrous structures in the ground cytoplasm  
of the *Arbacia* egg. J. Exptl. Zool. 119(1):  
47-63. 2/52.

McCulloch, David 2262  
Note on the origin of the cortical granules  
in *Arbacia punctulata* eggs. Exptl. Cell Re-  
search. 3(3):605-7. 1952.

McDowall, I. & W. Vose 2263  
Sedimentation of halloysite. Nature.  
170:368. 8/30/52.

McLauchlan, T. A. 2264  
Techniques that permit successive examina-  
tions of specific areas by electron microscopy.  
Symposium on Techniques for Electron Metallo-  
graphy. Special Technical Publication #155.  
Am. Soc. Testing Materials. :96-100. 1953.

McLean, D. A., H. A. Birdsall & C. J. Calbick 2265  
Microstructure of capacitor paper. 2265  
Industr. Engng. Chem. 45:1509-15. 7/53.

McLean, Franklin C. 2266  
Bone. Sci. American. 92:84-91. 2/55.

McLennan, D. E. 2267

Study of ionic crystals under electron bombardment. *Can. J. Phys.* 29:122-8. 3/51.

McMullan, D. 2268  
An improved scanning electron microscope for opaque specimens. *Proc. Inst. Elec. Engrs. London*. 100, pt. II(75):245-57. 6/53.

McQuillen, Kenneth 2269  
Bacterial protoplasts: growth and division of protoplasts of *Bacillus megaterium*. *Biochim. et Biophys. Acta*. 18:458-61. 1955.

Maaløe, O., A. Birch-Andersen & F. S. Sjöstrand 2270  
Electron micrographs of sections of *E. coli* cells infected with the bacteriophage T<sub>4</sub>. *Biochim. et Biophys. Acta*. 15:12-9. 1954.

Maccacaro, G. A. & A. Angelotti 2271  
Studio dei filamenti in *Escherichia coli* K 12 ed in alcuni suoi mutanti. *G. Microbiol.* 1:85-96. 1955.

Maccacaro, G. A. & A. Pasinetti 2272  
Indagini in microscopia elettronica su alcuni ceppi F<sup>+</sup> ed F<sup>-</sup> di *Escherichia coli* K 12. *Boll. ist. sieroterap. Milan* 34(11/12):689-94. 1955.

Machay, M. L. & B. Lovas 2273  
Electron microscopic studies on the alkaline dissolution of polyhedral inclusion bodies. *Acta Vet. Acad. Sci. Hung.* 4(2/3):253-8. 1954.

Magnan, Claude 2274  
El microscopio protonico. *Ciencia e invest. Buenos Aires*. 8(7):291-305. 1952.

Magnan, Claude 2275  
État des travaux concernant le microscope protonique. 1st Int. Cong. Electron Micros., Paris, 9/50. *Proc.* :264-8. Paris, Ed. Rev. Optique, 1953.

Magnan, Claude 2276  
Le microscope protonique. *Conf. du Palais de la Decouverte, Ser. A, No. 203*. 1/15/55. 16p.

Magnan, C. & P. Chanson 2277  
Sur un microscope électrostatique fonctionnant, par commutation, avec un faisceau électronique ou protonique. In "Les techniques récentes en microscopie électronique et corpusculaire, Toulouse, 4/4-8/55. Colloque intern. centre nat'l. recherche sci., Paris. *Compt. rend.* :83-9.

Mahl, H. 2278  
The use of the electron microscope in metallurgical research in Germany during and since the war. In *Metallurgical Applications of the Electron Microscope*. Institute of Metals Monograph and Report Series No. 8. London, 1950. :37-41.

Mahl, Hans 2279  
The electron microscope in metal science. *Metall.* 6:69-73. 2/52.

Mahl, H. 2280  
Zur elektronenmikroskopischen Untersuchung an Textilfasern. *Z. wiss. Mikroskop.* 60:372-80. 3/52.

Mahl, H. 2281  
Die industrielle Anwendung der elektronenoptischen Oberflächenabbildung, insbesondere

in der Textilforschung. *Rapport Europées Congrès Toeg. Em. Gent*, 4/7-10/54. :253-63.

Mahla, E. M. & N. A. Nielsen 2282  
Carbide precipitation in type 304 stainless steel -- an electron microscope study. *Am. Soc. Metals*, 32nd Ann. Conv., Chicago, 10/23-7/50, Preprint 16. 25p.

Maier, Karl-Heinrich & Hans Beutelspacher 2283  
Struktur und Porenverteilung in Filtermembranen. *Naturwissenschaften*. 23:605-6. 1953.

Maier, Karl-Heinrich & Hans Beutelspacher 2284  
Beiträge zur Kenntnis der Hohlraumssysteme von Membranfiltern. *Kolloid-Z.* 135(1):10-28. 1954.

Maire, J. & A. Mathieu-Sicaud 2285  
Étude de gels d'acide graphitique au microscope électronique. *Bull. soc. franç. minéral et crist.* 75:599-604. 1952.

Makinson, K. Rachel 2286  
Some replica techniques useful in electron microscopy of the surface of the wool fiber. *Textile Research J.* 20:22-8. 1/50.

Malfatti, Mario G. 2287  
Study of the morphology of *Mycobacterium leprae* under the electron microscope. *Intern. J. Leprosy*. 20:95-104. 1-3/52.

Malfatti, M. G. 2288  
*Actinomyces israeli*, sa morphologie au travers de l'optique électronique. *Rapport Europées Congrès Toeg. Em. Gent*, 4/7-10/54. :147-9.

Malfatti, M. G. 2289  
La aplicación de la microscopía electrónica al estudio de los gérmenes quirúrgicos. *Rapport Europées Congrès Toeg. Em. Gent*, 4/7-10/54. :103-23.

Malfatti, Mario G. 2290  
Aplicación de la óptica electrónica al estudio de la microbiología quirúrgica. *Revista Publicaciones Navales (Argentina)*. 7:5-152. 1954.

Malfatti, Mario G. & Enrique D. L. Jonquieres 2291  
Investigaciones a través de la optica electrónica de la acción del tratamiento médico sobre la morfología del *Mycobacterium leprae*. *Semana méd. Buenos Aires*. 59:408-23. 4/3/52.

Malfatti, Mario G. & Ricardo C. Zapater 2292  
El dimorfismo de algunos hongos patógenos observado a través del microscopio electrónico. *Prensa méd. argent.* 41(53):3869-74. 1954.

Mallett, G. E., H. Koffler & J. N. Rinker 2293  
The effect of shaking on bacterial flagella and motility. *J. Bacteriol.* 61:703-8. 6/51.

Malsch, Friedrich 2294  
20 Jahre Feinfokus-Röntgenröhren. *Z. Metallkunde*. 46(9):611-3. 1955.

Mandl, Ines, John D. MacLennan & Edward L. Howes 2295  
Isolation and characterization of proteinase and collagenase from *Cl. histolyticum*. *J. Clin. Invest.* 32(12):1323-9. 12/53.

Manogue, B. & R. L. Elliott 2296  
An electron microscope examination of wool. The fraction resistant to peracetic acid-ammonium



hydroxide treatment. J. Soc. Dyers Colourists. 69:113-4. 1953.

Manogue, B. & M. S. Moss 2297  
Heterogeneity of keratin fibers. Textile Research J. 23(12):938-9. 1953.

Manogue, B. & M. S. Moss 2298  
Resistant membranes from wool and hair fibres. Nature. 172:806. 1953.

Manogue, B., M. S. Moss & R. L. Elliott 2299  
Some observations on the histology of keratin fibers. J. Soc. Dyers Colourists. 70:502-5. 1954.

Manton, I. 2300  
The fine structure of plant cilia. Symposia Soc. Exptl. Biol. 6:306-19. 1952.

Manton, I. 2301  
Number of fibrils in the cilia of the green algae. Nature. 171:485. 3/14/53.

Manton, I. 2302  
Observations with the electron microscope on *Synura caroliniana* Whitford. Proc. Leeds Phil. Lit. Soc. Sci. Sect. 6(5):306-16. 12/55.

Manton, I. 2303  
Plane of bilateral symmetry in plant cilia. Nature. 176:123. 7/16/55.

Manton, Irene & B. Clarke 2304  
Electron microscope observations on the spermatozoid of *Fucus*. Nature. 166:973-4. 12/9/50.

Manton, I. & B. Clarke 2305  
Demonstration of compound cilia in a fern spermatozoid with the electron microscope. J. Exptl. Botany. 2:125-8. 2/51.

Manton, I. & B. Clarke 2306  
Electron microscope observations on the zoospores of *Pylaiella* and *Laminaria*. J. Exptl. Botany. 2:242-6. 1951.

Manton, I. & B. Clarke 2307  
An electron microscope study of the spermatozoid of *Fucus serratus*. Ann. Botany, London. 15:461-71. 10/51.

Manton, I. & B. Clarke 2308  
An electron microscope study of the spermatozoid of *Sphagnum*. J. Exptl. Botany. 3(9):265-75. 1952.

Manton, I., B. Clarke & A. D. Greenwood 2309  
Observations with the electron microscope on a species of *Saprolegnia*. J. Exptl. Botany. 2:321-31. 9/51.

Manton, I., B. Clarke & A. D. Greenwood 2310  
Further observations on the structure of plant cilia, by a combination of visual and electron microscopy. J. Exptl. Botany. 3(8):204-15. 1952.

Manton, I., B. Clarke & A. D. Greenwood 2311  
Further observations with the electron microscope on spermatozooids in the brown algae. J. Exptl. Botany. 4(12):319-29. 1953.

Manton, I., B. Clarke & A. D. Greenwood 2312  
Observations with the electron microscope on biciliate and quadriciliate zoospores in green algae. J. Exptl. Botany. 6(16):126-8. 1955.

Maresh, Charles 2313  
Electron microscopy of paint films. (Abstract, Paper #26(B), Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1417. 11/53.

Markali, Joar & Eystein Paasche 2314  
On two species of *Umbeliosphaera*, a new marine coccolithophorid genus. Nytt Mag. Bot. 4:95-100. 1955.

Maron, Samuel H., Carl Moore & A. S. Powell 2315  
Electron microscopy of synthetic latices. J. Appl. Phys. 23(8):900-5. 8/52.

Marotzke, Renate 2316  
Elektronenmikroskopische Untersuchungen der Substantia propria des normalen menschlichen Trommelfells. Z. wiss. Mikroskop. 61:429-38. 4/54.

Marsh, Richard E., Robert B. Corey & Linus Pauling 2317  
An investigation of the structure of silk fibroin. Biochim. et Biophys. Acta. 16:1-34. 1955.

Marshak, Alfred 2318  
Chromosome structure in *Escherichia coli*. Exptl. Cell Research. 2(2):243-51. 1951.

Marshak, Alfred 2319  
Note on helical structures in some bacteria and viruses. Biochim. et Biophys. Acta. 18:140-1. 1955.

Martignoni, Mauro E. 2320  
Die submikroskopische Textur der peritrophischen Membran von *Peridroma margaritosa* (Haw.) (Noctuidae, Lepidoptera). Mitt. Schweiz. entomol. Ges. 25(2):107-10. 1952.

Martignoni, Mauro E. 2321  
Über zwei Viruserkrankheiten von Forstinsekten im Engadin. Mitt. Schweiz. entomol. Ges. 27(2):147-52. 1954.

Martin, A. & S. G. Tomlin 2322  
A technique for the cultivation and preparation of tissue cultures for electron microscopy. Biochim. et Biophys. Acta. 5:154-65. 4/50.

Martin, A. V. W. 2323  
Electron microscope studies of collagenous fibres in bone. Biochim. et Biophys. Acta. 10:42-8. 1953.

Martin, A. V. W. 2324  
An electron microscope study of the cartilaginous matrix in the developing tibia of the fowl. J. Embryol. Exptl. Morphol. 2(1):38-43. 3/54.

Martin, O. 2325  
Eine Objekträgervorrichtung zur gleichzeitigen Einführung einer grossen Zahl von Objekten in das Elektronenmikroskop. Optik. 7:333-5. 10-12/50.

Martischinig, E. 2326  
Zur elektronenoptisch dargestellten Wirkung von Ultraschall auf Bakterine. Wien. klin. Wochschr. 63:509-10. 1951.

Marton, Claire, Samuel Sass, Max Swerdlow, Alan Van Bronkhorst & Harold Meryman 2327  
Bibliography of electron microscopy. Natl Bur. Standards, Circ. 502. Washington, 1950. iv, 87p.



- Marton, L. 2328  
Electrons vs. photons: a comparison of  
microscopes. *J. Opt. Soc. Amer.* 40:269-74.  
5/50.
- Marton, L., L. B. Leder, H. Mendlowitz,  
J. A. Simpson & C. Marton 2329  
Les pertes d'énergie des électrons et  
leur rôle en microscopie électronique. Les  
techniques récentes en microscopie électro-  
nique et corpusculaire, Toulouse, 4/4-8/55.  
:175-88. Colloque intern. centre. natl.  
recherche sci, Paris.
- Marton, L., M. M. Morgan, D. C. Schubert,  
J. R. Shah & J. A. Simpson 2330  
Electron-optical bench. *J. Research*  
*Natl. Bur. Standards.* 47:461-4. 12/51.
- Marton, L. & D. L. Reverdin 2331  
Electron optical properties of space-charge  
clouds. *J. Appl. Phys.* 21:842. 8/50.
- Maruse, Susumu & Isamu Eguchi 2332  
Shadow microscope images by two stage  
E. M. J. *Electronmicroscopy.* 3(1):17-20.  
1953.
- Marusov, N. 2333  
Flow properties of lubricating greases.  
*Inst. Spokesman Natl: Lubricating Grease Inst.*  
15:8-29. 1951.
- Marvin, James F. 2334  
An electron microscope study of radiation  
damage in the cell. (Abstract, Paper #60,  
Electron Microscope Society of America Meet-  
ing, Pocono Manor, Pa., 11/5-7/53.) *J. Appl.*  
*Phys.* 24:1422. 11/53.
- Marvin, James F. 2335  
Effects of X-radiation on the gland cell.  
(Abstract, Paper #H18, Electron Microscope  
Society of America Meeting, Highland Park,  
Ill., 10/14-6/54.) *J. Appl. Phys.* 25:1467.  
1954.
- Marvin, James F. 2336  
Quantitative assay of the binding to pro-  
teins by iodinated dyes and phosphotungstic  
acid. (Abstract, Paper #H19, Electron Micro-  
scope Society of America Meeting, Highland  
Park, Ill., 10/14-6/54.) *J. Appl. Phys.*  
25:1467. 1954.
- Massey, Barbara W. 2337  
Description of technique for ultra-thin  
sectioning for electron microscopy. Argonne  
National Laboratory. Chicago, Ill. Report  
AECU-2179. 7/52. 12p.
- Massey, Barbara W. 2338  
Ultra-thin sectioning for electron micro-  
scopy. *Stain Technol.* 28:19-26. 1/53.
- Mathieu-Sicaud, Agnès 2339  
Précipitation du paratungstate d'ammonium  
en milieu eau-alcool. Conf. of Electron  
Micros., Delft, 7/49. *Proc. The Hague, Nijhoff,*  
1950. :170-1.
- Mathieu-Sicaud, Agnès 2340  
Quelques applications du microscope élec-  
tronique dans l'étude des dispersions. Doc-  
toral thesis, Faculty of Sciences, Univ. of  
Paris, June 1, 1950. Series A, no. 2406.  
Serial 3278. 56p.
- Mathieu-Sicaud, A. 2341  
Étude de suspensions aqueuses d'alumine.  
1st Int. Cong. Electron Micros., Paris, 9/50.  
*Proc.* :491-8. Paris, Ed. Rev. Optique, 1953.
- Mathieu-Sicaud, A. 2342  
Quelques applications du microscope élec-  
tronique dans l'étude des milieux cristallins.  
*Bull. soc. franç. minéral. et crist.* 77:833-8.  
4-6/54.
- Mathieu-Sicaud, Agnès, Jacques Mering &  
Irène Perrin-Bonnet 2343  
Étude au microscope électronique de la  
montmorillonite et de l'hectorite saturées  
par différents cations. *Bull. soc. franç.*  
*minéral et crist.* 74:439-56. 1951.
- Mathieu-Sicaud, Agnès, Jacques Mering &  
Irène Perrin-Bonnet 2344  
Étude au microscope électronique de la  
montmorillonite et de l'hectorite saturées  
par différents cations. *Mém. services chim.*  
état Paris. 37(3):207-18. 1952.
- Matoltsy, A. Gedeon 2345  
A study on the structural protein of the  
vitreous body (vitrosin). *J. Gen. Physiol.*  
36(1):29-37. 1952.
- Matoltsy, A. Gedeon, Jerome Gross &  
Antonio Grignolo 2346  
A study of the fibrous components of the  
vitreous body with the electron microscope.  
*Proc. Soc. Exptl. Biol. Med.* 76:857-60. 4/51.
- Matsui, Chiaki 2347  
Electron microscopic studies on bacterial  
virus active against *Pseudomonas solanacearum*  
E. F. Smith. II. *Sci. Bull. Fac. Agr. Kyushu*  
*Univ.* 15(3):333-8. 1955.
- Matsumiya, Seiichi & Shozaburo Takuma 2348  
Electron microscopic studies on dental caries  
and its prevention. IV. A study of the struc-  
tural changes in human enamel following the  
action of sodium fluoride. *Trans. Soc. Pathol.*  
*Japan. (Ed. Gen.)* 40:123-4. 1951.
- Matsumiya, Seiichi & Shozaburo Takuma 2349  
Atlas of electron micrographs of the human  
dental tissues. Tokyo, Tokyo Dental College  
Press, 1954. 159p.
- Matsumiya, Seiichi, Shozaburo Takuma &  
Hidetsugu Tsuchikura 2350  
Electron microscopical studies on the dental  
caries and its prevention. I. Study of dental  
caries on enamel surface. *Shikwa Gakuho (Japan*  
*monthly record of dental science, practice and*  
*miscellany).* 50(3/4):61-78. 12/50.
- Matsumiya, S., S. Takuma & H. Tsuchikura 2351  
Étude au microscope électronique des sur-  
faces dentaires lissées. Caries de l'email  
dentaire humain. *Actualités Odonto-stomat.*  
:409-19. 1952.
- Matsumiya, S., S. Takuma & H. Tsuchikura 2352  
Elektronenmikroskopische untersuchungen  
über Karies und Kariesprophylaxe. *Deut. Zahn-*  
*ärztl. Z.* 9:758-64. 1954.
- Matsumiya, Seiichi, Shozaburo Takuma,  
Hidetsugu Tsuchikura & Kenichi Okada 2353  
Electron microscopical studies on the dental

caries and its prevention. Report 2. Studies on the caries prophylactic mechanism in topical application of sodium fluoride. Shikwa Gakuho (Japan monthly record of dental science, practice and miscellany). 52(4/5):173-81. 5/52.

Matsuo, Gaiji & Tadashi Fujiwara 2354  
Electron microscopic studies on the otoliths. (in Japanese) Ōsaka Shiritsu Daigaku Igaku Zasshi. 2(2):56-9. 1953.

Matsuzaki, Seiichi & Toshiro Yanase 2355  
Studies on resin finishing for cellulosic fabrics. VI. Resistance of methylene-linkage formed by formaldehyde treatment to dilute hydrochloric acid. (in Japanese) J. Soc. Textile and Cellulose Ind., Japan. 11:16-21. 1955.

Matthes, M., H. Schubothe & B. Lindemann 2356  
Klinische und experimentelle studien zur chronischen hämolytischen Anämie mit nächtlicher Hämoglobinurie. (Typ Marchiafava-Micheli). Acta Haematol. 5:193-222. 1951.

Matthews, H. I. & H. Wilman 2357  
Identification of materials by electron diffraction in the electron microscope. Brit. J. Appl. Phys. 6:277-80. 1955.

Mauersberger, Herbert Richard, Ed. 2358  
Matthew's textile fibres: their physical, microscopic, and chemical properties. New York, John Wiley & Sons, 1954. 6th ed. 1283p.

Maxfield, Myles 2359  
Axoplasmic proteins of the squid giant nerve fiber with particular reference to the fibrous protein. J. Gen. Physiol. 37(2):201-16. 11/20/53.

Mayer, G., P. Blanquet, R. Canivenc & L. Capot 2360  
Étude de la basophilie cytoplasmique des cellules trophoblastiques du rat par les méthodes histochimiques et le microscope électronique. Arch. Anat. micr. 42(4):319-33. 1953.

Mayer, Ludwig 2361  
Electron optical image of an electron beam. J. Appl. Phys. 24(1):105-6. 1/53.

Mayer, Ludwig 2362  
On electron mirror microscopy. J. Appl. Phys. 26:1228-30. 10/55.

Mayne, J.E.O. & J. W. Menter 2363  
The mechanism of inhibition of the corrosion of iron by solutions of sodium phosphate, borate, and carbonate. J. Chem. Soc. 4389:103-7. 1/54.

Mazzella, Alberto 2364  
Osservazioni sull' struttura della ciglia vibratili dell'epitelio tracheale studiate col microscopio elettronico. Ateneo parmense. 25(3/4):1-16. 1954.

Mazzella, A. & E. Mazza 2365  
Osservazioni sull'effetto dei raggi ultravioletti e degli ultrasuoni sulle ciglia vibratili dell'epitelio tracheale. (Indagini al microscopio elettronico). Boll. soc. ital. biol. sper. 30(7):1015-7. 1954.

Meier, Hans 2366  
Über den Zellwandabbau durch Holzvermorschungspilze und die submikroskopische Struktur von Fichtentracheiden und Birkenholzfasern. Holz

Roh- u. Werkstoff. 13(9):323-38. 1955.

Meier, Hans & John Webster 2367  
An electron microscope study of cysts in the Saprolegniaceae. J. Exptl. Botany. 5(15):401-9. 1954.

Meiklejohn, W. H. 2368  
Experimental study of the coercive force of fine particles. Rev. Modern Phys. 25(1):302-6. 1953.

Meirowsky, E. & L. W. Freeman 2369  
Molecular aspects of cornification. J. Invest. Dermatol. 21(2):83-90. 8/53.

Melczar, M. 2370  
Aetiology of dermatitis herpetiformis and pemphigus chronicus. Acta Med. Acad. Sci. Hung. 6(3/4):255-72. 1954.

Meldau, Robert 2371  
Handbuch der Staubtechnik. Bd. 1, Grundlagen. Düsseldorf, Deutscher Ingenieur-Verlag, 1952. 254p.

Meldau, R., Harsewinkel 2372  
Electron microscopy investigations of diamond powders. Electronoptical study of Types I and II diamonds. Industr. Diam. Rev. 11:7-8. 1951.

Meldau, R., Harsewinkel & R.H.S. Robertson 2373  
Electron microscopy investigations of diamond powders. Electronoptical study of Types I and II diamonds. Industr. Diam. Rev. 11:251-3. 1951.

Mellors, R. C., ed. 2374  
Analytical cytology; methods for studying cellular form and function. New York, McGraw-Hill, 1955. 512p.

Melnick, Joseph L. 2375  
Viruses within cells. Until recently the electron microscope could make these small organisms visible only if they were isolated. Now an ingenious technique of preparation reveals them in their natural habitat. Sci. American. 189(6):39-41. 11/53.

Melnick, Joseph L. 2376  
Electron microscopic studies of viruses and cells. 2nd. Natl. Cancer Conf., Cincinnati, 3/3-5/52. Proc. :1424-39. New York, American Cancer Soc., 1954.

Melnick, Joseph L., Henry Bunting, William G. Banfield, M. J. Strauss & W. H. Gaylord 2377  
Electron microscopy of viruses of human papilloma, molluscum contagiosum, and vaccinia, including observations on the formation of virus within the cell. Ann. N. Y. Acad. Sci. 54(6):1214-25. 6/52.

Melnick, Joseph L. & William H. Gaylord 2378  
Intracellular development of pox viruses. Cold Spring Harbor Symposia Quant. Biol. 18:61-3. 1953.

Melnick, Joseph L. & William H. Gaylord 2379  
Problems with spontaneous ectromelia (mouse pox) in a virus laboratory. Proc. Soc. Exptl. Biol. Med. 83:315-8. 1953.

Melnick, Joseph L., Maurice J. Strauss, Henry Bunting & Ernest Shaw 2380  
"Crystalline" virus-like bodies from human



skin papillomas. (Abstract, Paper #34, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:70. 1950.

Melton, C. W. 2381  
Preshadowed replication of biological material for electron microscopy. (Abstract, Paper #17, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1415. 11/53.

Mendelson, L. I., F. E. Luborsky & T. O. Paine 2382  
Permanent-magnet properties of elongated single-domain iron particles. J. Appl. Phys. 26(1):1274-80. 1955.

Menke, Ernst 2383  
Elektronenmikroskopie an der menschlichen Zahnhartsubstanz. Z. Anat. Entwicklungs-geschichte. 115:1-18. 1950.

Mennenöh, S. & M. Fahnenbrock 2384  
Über elektronenmikroskopische Abbildung lebender Zähne mit Hilfe des Polymerisations-abdruckverfahrens. Kolloid-Z. 121:155-7. 3/51.

Mennenöh, S. & M. Fahnenbrock 2385  
Über das Polymerisationsabdruckverfahren in der Übermikroskopie. Z. wiss. Mikroskop. 60:203-11. 5/51.

Menter, J. W. 2386  
Direct examination of solid surfaces using a commercial electron microscope in reflection. J. Inst. Metals. 81:163-7. 1952-3.

Menter, J. W. 2387  
Direct observation of solid surfaces at high resolution by reflection electron microscopy. J. Phot. Sci. 1:12-20. 1953.

Menter, J. W. 2388  
Identification by electron microscopy and diffraction of minor constituents of oxide films stripped from iron surfaces. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :343-7. Paris, Ed. Rev. Optique, 1953.

Menter, J. W. 2389  
Electron-optical methods in constitutional metallurgy. J. Inst. Metals. 83:185-92. 1954.

Mercer, E. H. 2390  
Zur Existenz einer sogenannten Subcutis oder Zwischenmembran in Wolle und Haar. Melliand Textilber. 31(10):694-5. 1950.

Mercer, E. H. 2391  
Resistant peripheral membranes of the keratin fibres. Nature. 168:824. 1951.

Mercer, E. H. 2392  
The fine structure and biosynthesis of silk fibroin. Australian J. Sci. Research. Ser. B. 5:366-73. 3/52.

Mercer, E. H. 2393  
Observations on the molecular structure of byssus fibres. Australian J. Marine and Freshwater Research. 3:199-204. 1952.

Mercer, E. H. 2394  
The supercontraction of keratin. Textile Res. J. 22:476-9. 7/52.

Mercer, E. H. 2395

Modification in the surface of wool fibres produced by chemical treatments: An electron microscope study. Australian J. Appl. Sci. 4(1):107-17. 1953.

Mercer, E. H. & M. F. Day 2396  
The fine structure of the peritrophic membranes of certain insects. Biol. Bull. 103:384-94. 12/52.

Mercer, E. H. & Lorna Roadknight 2397  
The relation between damage and the structure of the wool fibre. Text. J. Aust. 7/20/50.

Mercer, F. V., A. J. Hodge, A. B. Hope & J. D. McLean 2398  
The structure and swelling properties of Nitella chloroplasts. Australian J. Biol. Sci. 8(1):1-18. 1955.

Mering, J., A. Mathieu-Sicaud & I. Perrin-Bonnet 2399  
Fixation des particules d'or colloïdal sur la kaolinite. Congrès Géologique Int., Alger, 1952. Compt. rend. 18:103-7. 1953.

Mering, M. 2400  
Utilisation du microscope électronique en chimie colloïdale. Assoc. tech. ind. papetière. 1:26-7. 1953.

Merling, K. B. 2401  
A binocular magnifier for the electron-microscope, for critical viewing and focusing of finest structures (bacteriophage of B. coli). J. Roy. Microscop. Soc. 70:381-7. 12/50.

Meryman, Harold T. 2402  
Beam deflection focusing device. (Abstract, Paper #8, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:67. 1950.

Meryman, Harold T. 2403  
Replication of frozen liquids by vacuum evaporation. (Abstract, Paper #16, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:68. 1950.

Meryman, H. T. & E. Kafig 2404  
Evaporated replicas of frozen liquids at low temperature. (Abstract, Paper #16, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:158. 1/52.

Meryman, Harold T. & Emanuel Kafig 2405  
Migratory recrystallization of ice at low temperatures. (Abstract, Paper #19, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1416. 11/53.

Metz, Charles B., Dorothy R. Pitelka & Jane A. Westfall 2406  
The fibrillar systems of ciliates as revealed by the electron microscope. I. Paramecium. II. Tetrahymena. Biol. Bull. 104(3):408-35. 6/53, & 107(1):106-22. 8/54.

Meurer, J Siegfried 2407  
Licht- und elektronen-mikroskopische Studien an gebrauchten Motorenölen. Z. Ver. deut. Ing. 94:160. 1952.

Meyer, H. 2408  
Electron microscope study of nerve fibres



grown in vitro. Exptl. Cell Research. 7:15-22. 1954.

Meyer, H. 2409  
Observations on the ultrastructure of experimentally altered nerve fibres, grown and injured in tissue cultures. Exptl. Cell Research. 9:186-8. 1955.

Meyer, H. & I. Andrade de Mendonca 2410  
Electron microscopic observations of Toxoplasma 'Nicolle et Manceaux' grown in tissue cultures. Parasitology. 45(3&4):449-51. 11/55.

Meyer, Kurt H., L. Huber & E. Kellenberger 2411  
La texture de la cellulose animale. Experientia. 7:216-7. 6/51.

Michel, M. & Y. Bernard 2412  
Lentilles électrostatiques permettant la focalisation des particules de grande énergie: Calcul des trajectoires. Compt. rend. acad. sci. 236:902-4. 3/2/53.

Michel, M. & Yves Bernard 2413  
Lentilles électrostatiques permettant de focaliser des particules de très grande énergie. Répartition des champs. Compt. rend. acad. sci. 236:185-7. 1/12/53.

Le microscope électronique Zeiss A.E.G. 2413a  
et le nouveau microscope électronique Philips E.M. 75. Bull. microscop. appl. 4:124-7. 1954.

Middlebrook, Mavis J. & R. D. Preston 2414  
Spiral growth and spiral structure. III. Wall structure in the growth zone of Phycomyces. Biochim. et Biophys. Acta. 9:32-48. 7/52.

Mielke, James L. & George W. Cochran 2415  
Differences in spore surface markings of three pine rusts, as shown by the electron microscope. Mycologia. 44(3):325-9. 5-6/52.

Mii, Y. 2416  
Untersuchungen der Colibazillen phagocytierten Bindegewebszellen im Elektronenmikroskop. Arch. hist. jap. 6:67-71. 1954.

Miller, C. Arden 2417  
Growth of the poliomyelitis viruses in large stationary cultures. Proc. Soc. Exp. Biol. Med. 82:450-4. 3/53.

Milligan, W. O. & Harry B. Weiser 2418  
Orientation effects in transparent alumina films. J. Phys. & Colloid Chem. 55(4):490-6. 1951.

Mitchell, R. F. 2419  
Examination of some plasma proteins by electron microscopy. Biochim. et Biophys. Acta. 9:430-42. 1952.

Mitchison, J. M. 2420  
The thickness of the sea urchin fertilisation membrane. Exptl. Cell Research. 5(2):536-8. 1953.

Mitsui, Yukihiko, Jun Tsutsui & Chie Tanaka 2421  
Electron microscopic study of Chlamydozoon trachomatis. Brit. J. Ophthalmol. 36:582-5. 1952.

Miura, Kin-ichiro & Bun-ichi Tamamushi 2422

The relation between colour and particle size of gold sols. J. Electronmicroscopy. 1(1):36-9. 1953.

Mizuguchi, Yooko 2423  
Electronmicroscopic studies on the thin sections of tissues infected with vaccinia virus. I. Studies on the inclusion body. (in Japanese) Virus. 5(4):324-32. 1955.

Modin, Helfrid 2424  
An improvement in the replica technique for electron microscopy of structures in steel. Jernkontorets Ann. 139(8):521-3. 1955.

Modin, Helfrid 2425  
A method for isolating carbide in carbon and low alloy steel. Jernkontorets Ann. 139(8):516-20. 1955.

Modin, Helfrid & Sten Modin 2426  
Pearlite and bainite structures in a eutectoid carbon steel. An electron microscopic investigation. Jernkontorets Ann. 139:481-515. 1955.

Moe, C. A. 2427  
The use of carbon replicas in electron microscopic studies of magnesium alloys. (Abstract, Paper #4, Electron Microscope Society of America Meeting, University Park, 10/27-9/55.) J. Appl. Phys. 26:1391. 1955.

Mölbert, Elisabeth 2428  
Elektronenmikroskopische Untersuchungen roter Blutkörperchen unter verschiedenen Milieueinflüssen. Klin. Wochschr. 33(5/6):114-9. 2/55.

Mölbert, Elisabeth 2429  
Elektronenmikroskopische Untersuchungen zur Morphologie von Leptospiren. Z. Hyg. Infektionskrankh. 141:82-90. 2/55.

Möllenstedt, G. 2430  
Elastisch und unelastisch getreute Elektronen in Übermikroskopischen Dunkelfeldbildern. Optik. 6:251-5. 4/50.

Möllenstedt, G. 2431  
Über die chromatischen Verluste von Elektronen beim Durchtritt durch Materie. Optik. 9:473-80. 1952.

Möllenstedt, G. 2432  
Elektronenmikroskopische Sichtbarmachung von Hohlstellen in Einkristall-Lamellen. Optik. 10:72-89. 1953.

Möllenstedt, G. 2433  
100 ke Volt-Elektronen im elektrostatischen Elektronenmikroskop (Zwischenbeschleuniger). Optik. 12:433-40. 1955.

Möllenstedt, G. & H. Düker 2434  
Emissionsmikroskopische Oberflächenabbildung mit Elektronen, die durch schrägen Ionenbeschuss ausgelöst wurden. Optik. 10:192-205. 1953.

Möllenstedt, G. & H. Düker 2435  
Das Energiespektrum hoher Auflösung von Kathodenstrahlen aus der Gasentladung. Z. Naturforsch. 8a:79-90. 1953.

Möllenstedt, G. & W. Hubig 2436  
Substanzdifferenzierung im Elektronen-Emissionsmikroskop. Optik. 11:528-39. 1954.

Möllenstedt, G. & O. Rang 2437  
Die elektrostatische Linse als hochauflösendes

Geschwindigkeitsfilter. Z. angew. Phys. 3  
(5):187-9. 1951.

Moller, V. & A. Birch-Anderson 2438  
Some morphological changes caused by various  
treatments of bacteria, as studied by electron  
microscopy. Acta Pathol. Microbiol. Scand.  
29(2):132-43. 1951.

Mommaerts, E. B., D. G. Sharp, Edward A.  
Eckert, Dorothy Beard & J. W. Beard 2439  
Virus of avian erythromyeloblastic leukosis.  
I. Relation of specific plasma particles to  
the dephosphorylation of adenosine triphosphate.  
J. Natl. Cancer Inst. 14(5):1011-23. 4/54.

Moner, John G. 2440  
Cell wall structure in *Pediastrum* as re-  
vealed by electron microscopy. Am. J. Botany.  
42(9):802-6. 11/55.

Monroe, Barbara Granger 2441  
Electron microscopy of the thyroid. Anat.  
Record. 116(3):345-62. 7/53.

Monsour, Victor, Orville Wyss & Douglas  
S. Kellogg 2442  
A bacteriophage for *Azotobacter*. J.  
Bacteriol. 70(4):486-7. 10/55.

Montel, Gerard 2443  
Sur la formation de certaines apatites par  
hydrolyse du phosphate bicalcique hydrate.  
Bull. soc. chim. France. 1712:506-11. 1953.

Moore, Dan H. & C. Morgan 2444  
A study of ischemic muscle. Trans. N. Y.  
Acad. Sci. 16:253. 3/54.

Moore, Dan H., Councilman Morgan, Leon  
Dmochowski & Harry M. Rose 2445  
Changes in muscle following tourniquet in-  
jury as seen in the electron microscope. (Ab-  
stract, Paper #50, Electron Microscope Society  
of America Meeting, Pocono Manor, Pa., 11/5-7/  
53.) J. Appl. Phys. 24:1421. 11/53.

Moore, Dan H., Kenneth T. Morse & A. R. T.  
Denues 2446  
Bibliographies of electron microscopy.  
(Abstract, Paper #26, Electron Microscope  
Society of America Meeting, Cleveland, Ohio,  
11/6-8/52.) J. Appl. Phys. 24:114. 1953.

Moos, Walter S. 2447  
Electron microscopy of fibers obtained  
from reactions between copper and a fraction  
of pyocyanine. J. Bacteriol. 62(6):767-70.  
12/51.

Moreau, Jean & Jacques Benard 2448  
Sur l'apparition de microstructures super-  
ficielles dans les alliages fer-chrome soumis  
à une réaction d'oxydation sélective. Compt.  
rend. acad. sci. 241:1571-3. 11/28/55.

Morehead, F. F. 2449  
A centerable condenser aperture for the  
RCA model "B" electron microscope. (Abstract,  
Paper #6, Electron Microscope Society of Amer-  
ica Meeting, Washington, D. C., 10/6-8/49.)  
J. Appl. Phys. 21:67. 1950.

Morehead, F. F. 2450  
Measurement of cellulose particle length  
by the electron microscope. (Abstract, Paper  
#17, Electron Microscope Society of America  
Meeting, Washington, D. C., 10/6-8/49.)

J. Appl. Phys. 21:68. 1950.

Morehead, Frederick F. 2451  
Ultrasonic disintegration of cellulose  
fibers before and after acid hydrolysis. Tex-  
tile Research J. 20:549-53. 8/50.

Morehead, Frederick F. 2452  
(a) The examination of fiber replicas using  
the objective designed by Hillier for ultra  
thin sections, and (b) A focusing microscope  
for the model "B" electron microscope. (Ab-  
stract, Paper #12, Electron Microscope Society  
of America Meeting, Philadelphia, Pa., 12/8-10/  
51.) J. Appl. Phys. 23:158. 1/52.

Morehead, Frederick F. 2453  
The high-contrast (wide-field) electron micro-  
scope objective and fiber replicas. Textile  
Research J. 22(6):379-84. 6/52.

Morgan, Councilman 2454  
The appearance of herpes simplex, influenza,  
vaccinia, and fowlpox viruses within sectioned  
chorioallantoic membranes examined in the elec-  
tron microscope. Bull. N. Y. Acad. Med.  
31:81-2. 1/55.

Morgan, Councilman, G. H. Bergold, Dan H.  
Moore & Harry M. Rose 2455  
The macromolecular paracrystalline lattice  
of insect viral polyhedral bodies demonstrated  
in ultrathin sections examined in the electron  
microscope. J. Biophys. Biochem. Cytol. 1(3)  
:187-90. 5/25/55.

Morgan, Councilman, Solon A. Ellison, Harry  
M. Rose & Dan H. Moore 2456  
The development of herpes simplex virus par-  
ticles, their relationship to nuclei, and the  
spread of infection within chorioallantoic mem-  
branes. (Abstract, Paper #33, Electron Micro-  
scope Society of America Meeting, Pocono Manor,  
Pa., 11/5-7/53.) J. Appl. Phys. 24:1418. 11/53.

Morgan, Councilman, Solon A. Ellison, Harry  
M. Rose & Dan H. Moore 2457  
Electron microscopic examination of inclusion  
bodies of herpes simplex virus. Proc. Soc.  
Exptl. Biol. Med. 82:454-7. 1953.

Morgan, Councilman, Solon A. Ellison, Harry  
M. Rose & Dan H. Moore 2458  
The effect of drying on the structure and  
shape of certain viruses. (Abstract, Paper  
#F6, Electron Microscope Society of America  
Meeting, Highland Park, Ill., 10/14-6/54.)  
J. Appl. Phys. 25:1461. 1954.

Morgan, Councilman, Solon Ellison, Harry M.  
Rose & Dan H. Moore 2459  
Herpes simplex virus observed in the elec-  
tron microscope in sectioned cells. Trans.  
N. Y. Acad. Sci. 16:251-2. 1954.

Morgan, Councilman, Solon A. Ellison, Harry  
M. Rose & Dan H. Moore 2460  
Internal structure in virus particles.  
Nature. 173:208. 1/30/54.

Morgan, Councilman, S. A. Ellison, Harry M.  
Rose & Dan H. Moore 2461  
Structure and development of viruses as  
observed in the electron microscope. I. Herpes  
simplex virus. J. Exptl. Med. 100(2):195-202.  
8/54.

Morgan, C., S. A. Ellison, H. M. Rose 2462



- & D. H. Moore 2462  
Structure and development of viruses observed in the electron microscope. II. Vaccinia and fowl pox viruses. J. Exptl. Med. 100(3):301-10. 9/54.
- Morgan, Councilman, Solon A. Ellison, Harry M. Rose & Dan H. Moore 2463  
Consecutive serial sections of viral particles examined in the electron microscope. Abstract no. M27. Soc. Am. Bacteriologists. Proc. 53:69-70. 1955.
- Morgan, C., S. A. Ellison, H. M. Rose, & D. H. Moore 2464  
Serial sections of vaccinia virus examined at one stage of development in the electron microscope. Exptl. Cell Research. 9:572-8. 1955.
- Morgan, Councilman, Dan H. Moore & Harry M. Rose 2465  
Effects of the microtome knife and the electron beam on thin sections of methacrylate embedded tissue. (Abstract, Paper #21, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26:1394. 1955.
- Morgan, Councilman & Robert W. Mowry 2466  
Demonstration of glycogen in the human liver by the electron microscope. Proc. Soc. Exptl. Biol. Med. 76:850-2. 4/51.
- Morgan, Councilman, Harry M. Rose & Dan H. Moore 2467  
Structure and development of influenza virus in cells of chick chorioallantoic membranes examined in ultrathin sections. (Abstract, Paper #28, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26:1396. 1955.
- Morgan, Councilman, George Rozsa, Albert Szent-Györgyi & Ralph W.G. Wyckoff 2468  
Macromolecular arrangement within muscle. Science. 111:201-2. 2/24/50.
- Morgan, Councilman & Ralph W. Wyckoff 2469  
The electron microscopy of fowl pox virus within the chorioallantoic membrane. J. Immunol. 65:285-95. 8/50.
- Mori, Hironobu 2470  
Electron microscopic observations of bacteriophages. Part 1. Electron microscope observations of Coli phage. J. Electronmicroscopy. 3(1):34-8. 1953.
- Mori, Hironobu 2471  
Electron microscopic observations of bacteriophages. Part 2. Electron microscopic observations of *Shigella komagome* A phage. J. Electronmicroscopy. 3(1):39-45. 1953.
- Mori, Shigeo, Morikuni Kawano, Toru Itatani & Satoshi Taoka 2472  
The effect of rutin on fertilization and early development of sea urchin eggs. Tokushima J. Exptl. Med. 2(3):172-86. 12/55.
- Morinaga, Takuichi & N.S.C. Onozaki 2473  
X-ray and electron microscopic studies on the cold working of metals and alloys. Nippon Kinzoku Gakkaishi. 15B:524-8. 1951.
- Morita, Shigeji 2474  
The electron microscopy of cell membrane.
- I. The homogeneous membrane of the egg cell from *Ascaris megalocephala*. Med. J. Osaka Univ. 3(4):669-73. 1953.
- Morito, Nozomu 2475  
On the chromatic field aberration of the magnetic electron lens in the electron microscope. J. Appl. Phys. 25(8):986-93. 1954.
- Morley, J. I. 2476  
A note on the examination of metal powders by the electron microscope. In Metallurgical Applications of the Electron Microscope. Institute of Metals Monograph and Report Series No. 8. London, 1950. :121-4.
- Morrione, Thomas G. 2477  
The formation of collagen fibers by the action of heparin on soluble collagen: an electron microscope study. J. Exptl. Med. 96:107-14. 8/1/52.
- Morrish, A. H. & S. P. Yu 2478  
Dependence of the coercive force on the density of some iron oxide powders. J. Appl. Phys. 26:1049-55. 8/55.
- Morrison, Peter R. & Charles L. Scudder 2479  
Fibrin clot structure during clotting as observed in unsupported films under the electron microscope. Amer. J. Physiol. 170:147-54. 7/52.
- Morse, Kenneth T. 2480  
The organization of a bibliography in electron microscopy. Bull. Med. Library Assoc. 41(3):246-51. 1953.
- Morse, Kenneth T., Dan H. Moore & A.R.T. Denues 2481  
The NYSEM bibliography of electron microscopy. (Abstract, Paper #2, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1414. 11/53.
- Morton, Harry E., James G. Lecce, John J. Oskay & Nettie H. Coy 2482  
Electron microscope studies of pleuropneumonia-like organisms isolated from man and chickens. J. Bacteriol. 68:697-717. 1954.
- Morton, Harry E. & John Oskay 2483  
Electron microscope studies of treponemes. II. The effect of penicillin on the Nichols strain of *Treponema pallidum*. Am. J. Syphilis Gonorrhea Venereal Diseases. 34:34-9. 1/50.
- Morton, Harry E., Geoffrey Rake & Noel R. Rose 2484  
Electron microscope studies of treponemes. III. Flagella. Am. J. Syphilis Gonorrhea Venereal Diseases. 35:503-16. 11/51.
- Morton, R. K. 2485  
The lipoprotein particles in cow's milk. Biochem. J. 57(2):231-7. 1954.
- Mott, N. F. 2486  
Dislocations and the theory of solids. Nature. 171:234-7. 2/7/53.
- Mottlau, A. Y. 2487  
A technique for the preparation of grease or solid samples dispersed in grease-like media for examination with the electron microscope. (Abstract, Paper #15, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:68. 1950.



- Moulder, James W. & Emilio Weiss 2488  
Purification and properties of the agent of feline pneumonitis. J. Infectious Diseases. 88:56-67. 1-2/51.
- Mouravieff, Igor 2489  
Sur la structure inframicroscopique des cuticules du *Ceratophyllum demersum* L. Ann. Univ. Lyon. Sect. C. 7:5-10. 1953.
- Mudd, S. 2490  
Electron microscopy in relation to the medical sciences. Conf. of Electron Micros., Delft, 7/49. Proc. The Hague, Nijhoff, 1950. :113-6.
- Mudd, Stuart 2491  
The mitochondria of bacteria. J. Histochem. and Cytochem. 1(4):248-53. 1953.
- Mudd, Stuart 2492  
Cytology of bacteria. Part I. The bacterial cell. Ann. Rev. Microbiol. 8:1-22. 1954.
- Mudd, Stuart, Arnold F. Brodie, Loren C. Winterscheid, Philip E. Hartmann, Ernst H. Beutner & Ruth McLean 2493  
Further evidence of the existence of mitochondria in bacteria. J. Bacteriol. 62:729-39. 1951.
- Mudd, Stuart, James Hillier, Ernst H. Beutner & Philip E. Hartman 2494  
Light and electron microscopic studies of *Escherichia coli*-coliphage interactions. II. The electron microscopic cytology of the *E. coli* B-T<sub>2</sub> system. Biochim. Biophys. Acta. 10:153-79. 1953.
- Mudd, Stuart & Andrew G. Smith 2495  
The adaptation of cytological technique to electron microscopy. (Abstract, Paper #38, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:71. 1950.
- Mudd, Stuart & A. G. Smith 2496  
Electron and light microscopic studies of bacterial nuclei. I. Adaptation of cytological processing to electron microscopy; bacterial nuclei as vesicular structures. J. Bacteriol. 59:561-73. 1950.
- Mudd, Stuart & A. G. Smith 2497  
Electron microscopic studies of bacterial nuclei. "Fixation" of the specimen in the electron beam. Optik. 7:319. 4-5/50.
- Mudd, Stuart, A. G. Smith, J. Hillier & E. H. Beutner 2498  
Electron and light microscopic studies of bacterial nuclei. III. The nuclear sites in metal-shadowed cells of *Escherichia coli*. J. Bacteriol. 60:635-9. 1950.
- Mudd, Stuart, Andrew G. Smith, James Hillier & Ernst Beutner 2499  
The nuclear vesicles of young gram-negative rods. Fixation in the specimen by irradiation in the electron microscope. 5th Int. Cong. Microbiol., Rio de Janeiro, 1950. Abstracts of papers. :29-30.
- Mudd, S. & L. C. Winterscheid 2500  
A note concerning bacterial cell walls, mitochondria and nuclei. Exptl. Cell Research. 5(1):251-4. 1953.
- Mudd, Stuart, Loren C. Winterscheid & Ernst H. Beutner 2501  
Concurrent electron and light microscopic evidence for the existence of mitochondria in bacteria. (Abstract, Paper #35, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:162. 1/52.
- Mueller, Ludwig E., P. H. Carr & W. E. Loomis 2502  
The submicroscopic structure of plant surfaces. Am. J. Botany. 41:593-600. 7/54.
- Mühlethaler, Kurt 2503  
An electron microscope study of the structure of viscose silk. Experientia. 6:226-8. 6/50.
- Mühlethaler, Kurt 2504  
Electron microscopy of developing plant cell walls. Biochim. et Biophys. Acta. 5:1-9. 3/50.
- Mühlethaler, Kurt 2505  
Elektronenmikroskopische Untersuchungen über den Feinbau und das Wachstum der Zellmembranen in Mais- und Hafer- koeoptilen. Ber. schweiz. botan. Ges. 60:614-28. 1950.
- Mühlethaler, Kurt 2506  
The structure of plant slimes. Exptl. Cell Research. 1:341-50. 4/50.
- Mühlethaler, K. 2507  
Structure of seed mucilages. Conf. of Electron Micros., Delft, 7/49. Proc. The Hague, Nijhoff, 1950. :135-6.
- Mühlethaler, Kurt 2508  
Zellwände unter dem Elektronenmikroskop. Umschau Wiss. u. Tech. 2:53-5. 1950.
- Mühlethaler, Kurt 2509  
Schnitte von 1/10,000 mm. Dicke zur Untersuchung im Elektronenmikroskop. Umschau Wiss. u. Technik. 10:303-5. 1952.
- Mühlethaler, Kurt 2510  
Elektronenmikroskopische Untersuchungen an pflanzlichen Geweben. Z. Zellforsch. 38:299-327. 1953.
- Mühlethaler, Kurt 2511  
Untersuchungen über die Struktur der Pollenmembran. Mikroskopie. 81(3/4):103-10. 1953.
- Mühlethaler, K. 2512  
Electron microscopic investigations of plant cell walls. Congr. Intern. Botan. Paris, 1954. 8(9-10):43.
- Mühlethaler, Kurt 2513  
Submikroskopische Morphologie. Fortschr. Botan. 16:72-95. 1954.
- Mühlethaler, K. 2514  
The structure of chloroplasts. Intern. Rev. Cytol. 4:197-220. 1955.
- Mühlethaler, K. 2515  
Die Struktur einiger Pollenmembranen. Planta. 46:1-13. 1955.
- Mühlethaler, K. 2516  
Untersuchungen über den Bau der Stärkekörner. Z. wiss. Mikroskop. 62(6):394-400. 1955.
- Mühlethaler, Kurt 2517  
Untersuchungen über die Struktur und

Entwicklung der Proplastiden. Protoplasma.  
45(2):264-79. 1955

Mühlethaler, K., A. F. Müller & H. U.  
Zollinger 2518  
Zur Morphologie der Mitochondrien. Exper-  
ientia. 6:16-7. 1/50.

Mühlpfordt, Heinz & D. Peters 2519  
Elektronenmikroskopische Untersuchungen  
an Flagellatengeißeln *Haematococcus pluvialis*  
(Flotow). Verhandl. Deut. Zoologen, Marburg,  
1950. :153-9.

Mukherjee, N. R. & Oliver Row 2520  
Studies of thin films by electron diffrac-  
tion. J. Appl. Phys. 22:681-2. 5/51.

Mukherjee, N. R. & Oliver Row 2521  
Effect of some factors on the quality of  
powder patterns by electron diffraction.  
(Abstract, Paper #5, Electron Microscope Soc-  
iety of America Meeting, Cleveland, Ohio,  
11/6-8/52.) J. Appl. Phys. 24:112. 1953.

Mukherjee, S. M., J. Sikorski & H. J.  
Woods 2522  
Electron-microscopy of degraded cellulose  
fibres. J. Textile Inst. 43:T196-T201. 4/52.

Mukherjee, S. M. & H. J. Woods 2523  
X-ray and electron microscope studies of  
the degradation of cellulose by sulphuric acid.  
Biochim. et Biophys. Acta. 10:499-511. 4/53.

Mulè, F. 2524  
Tentativi d'identificazione del virus  
della poliomielite al microscopio elettronico.  
Rend. ist. super. sanità. 14:1000-4. 1951.

Mulè, F. 2525  
Elektronenmikroskopische Blutbeobachtungen  
an mit Poliomyelitisvirus (Stamm Lansing) in-  
fizierten Mäusen. Experientia. 8:460. 12/52.

Mulè, F. 2526  
Osservazione al microscopio elettronico  
del sangue di scimmie rhesus inoculate con  
virus poliomielitico tipo Lansing. Rend. ist.  
super. sanità. 15:230-4. 1952.

Mulè, F. 2527  
Osservazioni al microscopio elettronico  
del sangue di topini infettati con virus  
poliomielitico stipite Lansing. Rend. ist.  
super. sanità. 15:226-9. 1952.

Mulè, F. 2528  
La viremia della malattia di Heine-Medin.  
Rend. ist. super. sanità. 15:220-5. 1952.

Mulè, F. 2529  
Osservazione al microscopio elettronico  
del sangue di scimmie rhesus inoculate con  
virus poliomielitico tipo Lansing. Aggiorn.  
Pediat. 4(2):169-76. 1953.

Mulè, F. 2530  
Osservazioni al microscopio elettronico  
sul sangue di ammalati di scarlattina.  
Pediatria. 61:3-20. 1/2/53.

Mulè, F. 2531  
Osservazioni al microscopio elettronico  
sul sangue di una ammalata affetta da epiteli-  
oma del pancreas. Policlinico, Rome. 60:1-7.  
1953.

Mulè, F. 2532  
Prospettive di ricerche nell'etiologia  
virale dei tumori. Osservazioni al microscopio  
elettronico sul sangue di ammalati affetti da  
leucemie e neoplasie. Aggiorn. Pediat. 14  
(5):1-24. 1953.

Mulè, F. 2533  
Virus e streptococco nella etiologia della  
febbre reumatica. Aggiorn. Pediat. 4(7):409-  
513. 1953.

Mulè, F. 2534  
Observation by means of electron microscope  
on the blood of subjects affected with scarlet  
fever. Experientia. 10(5):205. 1954.

Mulè, F. 2535  
Rapporti tra virus e globuli rossi nella  
patogenesi della poliomielite. Minerva Med.  
2(71):493-501. 9/54.

Mulè, F. 2536  
Ricerche sulla etiologia virale della leu-  
cemie. Aggiorn. mal. infezione. 1(3):153-72.  
5-6/55.

Müller, Erwin 2537  
Making visible single atoms and molecules  
by the field electron microscope. 1st Int.  
Cong. Electron Microsc., Paris, 1950. Proc.  
:499-504. Paris, Ed. Rev. Optique, 1953.

Müller, Erwin W. 2538  
Das Feldionenmikroskop. Z. Phys. 131:  
136-42. 12/51.

Müller, E. W. 2539  
Image formation of individual atoms and  
molecules in the field emission microscope.  
(Abstract, Paper #6, Electron Microscope Soc-  
iety of America Meeting, Pocono Manor, Pa.  
11/5-7/53.) J. Appl. Phys. 24:1414. 11/53.

Müller, K. & E. Ruska 2540  
Ein vereinfachtes elektromagnetisches Durch-  
strahlungsmikroskop für Elektronen von 40 bis  
60 kV. Z. wiss. Mikroskop. 62(3):205-19. 1955.

Müller, Walter & Walter Behne 2541  
Zur Morphologie des Glaukonits. Natur-  
wissenschaften. 41(24):575. 1954.

Mulvey, T. 2542  
A direct method for measuring the high volt-  
age stability of the electron microscope. J.  
Sci. Instr. 29:149-50. 5/52.

Mulvey, T. 2543  
German Society for Electron Microscopy.  
Fourth Annual Conference. Nature. 170:271-3.  
8/16/52.

Mulvey, T. 2544  
The magnetic circuit in electron microscope  
lenses. Proc. Phys. Soc. London. 66B:441-7.  
6/53.

Munk, Klaus & W. W. Ackermann 2545  
Some properties of herpes simplex virus.  
J. Immunol. 71(6):426-30. 12/53.

Muñoz Fernandez, Emilio, Antonio Mundo Fuertes  
& Manuel Martínez de Victoria 2546  
Estudios sobre modificadores de la activi-  
dad de los agentes bacteriostáticos. 7. La  
urea en la acción de la estreptomycin y de la



- hidrazida del acido nicotinico (Hin) sobre diversas especies de "Mycobacterium". Observaciones con el microscopio electronico. Arch. inst. farmacol. exptl. Madrid. 6(1):1-14. 1954.
- Muratori, G. & P. F. Munari 2547  
Osservazioni submicroscopiche preliminari sulla struttura dello stroma connettivo degli abbozzi precoci degli arti dell'embrione di pollo. Boll. soc. ital. biol. sper. 31(6): 641-3. 1955.
- Murphy, James S. 2548  
Recombinations of mutant phages of *Bacillus megatherium*. J. Exptl. Med. 98:657-65. 1953.
- Murphy, J. S. & F. B. Bang 2549  
Observations with the electron microscope on cells of the chick chorio-allantoic membrane infected with influenza virus. J. Exptl. Med. 95:259-68. 3/1/52.
- Murphy, J. S., D. T. Karzon & F. B. Bang 2550  
Studies of influenza A (PR8) infected tissue cultures by electron microscopy. Proc. Soc. Exptl. Biol. Med. 73:596-9. 4/50.
- Murray, R.G.E. & Ralph W.G. Wyckoff 2551  
A method for obtaining comparable specimens for both light and electron microscopy. J. Bacteriol. 66(2):242-4. 8/53.
- Myrvik, Quentin N. & Russell S. Weiser 2552  
Studies on antibacterial factors in mammalian tissues and fluids. I. A serum Bactericidin for *Bacillus subtilis*. J. Immunol. 74(1):9-16. 1955.
- Nagy, Bartholomew & Thomas F. Bates 2553  
Stability of chrysotile asbestos. Am. Mineralogist. 37:1055-8. 11-12/52.
- Nakahira, Mitsuoki, Shin-ichi Iwai & Akira Suzuki 2554  
Some observations on the clay minerals, kaolinite and halloysite, by the X-ray and electron microscopy. J. Sci. Research Inst. Tokyo. 45:52-6. 7/51.
- Nakanishi, I. 2555  
Electron-microscopic observation on internal acoustic nerve. (in Japanese) J. Kyoto Prefect. Coll. Med. 54(5):809-11. 1954.
- Nandy, K. P. 2556  
A graphical method for rapid estimation of the thickness of evaporated metal films. Rev. Sci. Instr. 25:523-4. 5/54.
- Nankivell, J. F. 2557  
A method of observing selected areas in electron and optical microscopes. Brit. J. Appl. Phys. 4:141-3. 5/53.
- Nantel, Albert 2558  
Microscopie électronique appliqué à l'étude des virus. Soc. Quebec (Canada) pour la Protection des Plantes. 34th Rpt.:167-80. 1952.
- Narath, A., F. Klötzer & W. Berthold 2559  
Untersuchungen an Photohaloiden. Z. Naturforsch. 7b:429-33. 8/52.
- Nasemann, Th. 2560  
Die Anwendung der Elektronenmikroskopie in der Dermatologie. Hautarzt. 3:483-8. 11/52.
- Nasemann, Th., B. Deubner & O. Huber 2561  
Efflorescenzen, licht- und elektronenoptische Abbildungen des Molluscum contagiosum virus. Hautarzt. 4:341-3. 7/53.
- Nasemann, Th. & O. Huber 2562  
Elektronenoptische Untersuchungen über die Verteilung der Elementarkörpertypen nach peptischem Abbau von Molluscum contagiosum-Virus aus Efflorescenzen unterschiedlichen Alters. Z. Tropenmed. u. Parasitol. 6(3):374-9. 1955.
- Nasemann, T. & H. Röckl. 2563  
Klinische und experimentelle Untersuchungen über das Eczema vaccinatum. Hautarzt. 6:264-7. 6/55.
- Nasemann, Th., H. Röckl & O. Huber 2564  
Maltafieber mit Hautbeteiligung. Klinische, mikrobiologische und elektronenoptisch-morphologische Untersuchungen. Arch. klin. u. exptl. Dermatol. 201:9-23. 1955.
- Natanson, E. M. & I. A. Deryugin 2565  
Electron-microscopic study of organosols of tungsten and molybdenum. Ukrain. Khim. Zhur. 17:861-71. 1951.
- Nauck, E. G. 2566  
Elektronenoptische Darstellung von Bartonella muris Mayer. Optik. 7:323-4. 4-5/50.
- Nauck, E. G. 2567  
Blutparasiten in neuem Lichte. Umschau. 51:240-1. 1951.
- Nauck, Ernst George, Dietrich Peters & Reinhard Wigand 2568  
Elektronenoptische Untersuchung der Bartonella muris Mayer. Z. Naturforsch. 5b(5):259-64. 1950.
- Neckel, I. 2569  
Ueber Spiralstrukturen gequollener Kollagen- und Retikulinfibrillen. Z. wiss. Mikroskop. 60:298-300. 9/51.
- Neckel, Ingrid 2570  
Chemische und elektronenmikroskopische Untersuchungen über das Guanin in der Haut einiger Fische. Mikroskopie. 9(1/4):113-9. 1954.
- Nemetschek, Th., W. Grassmann & U. Hofmann 2571  
Veränderung des Kollagens durch Röntgenbestrahlung. Naturwissenschaften. 41(16):371. 1954.
- Nemetschek, T., W. Grassmann & U. Hofmann 2572  
Über die hochunterteilte Querstreifung des Kollagens. Z. Naturforsch. 10b(2):61-8. 1955.
- Nemetschek, T., U. Hofmann & K. E. Wohlfarth-Botterman 2573  
Die Querstreifung der Paramecium-Trichocysten. Z. Naturforsch. 8b(7):383-4. 1953.
- Nesbitt, E. A. & H. J. Williams 2574  
Shape and crystal anisotropy of Alnico 5. J. Appl. Phys. 26:1217-21. 10/55.
- Neuman, W. F. & M. W. Neuman 2575  
The nature of the mineral phase of bone. Chem. Revs. 53(1):1-45. 8/53.
- Newberry, S. P. 2576  
Comparison of electrostatic and electromagnetic focusing for the X-ray shadow microscope. (Abstract, Paper #13, Electron Microscope Society of America Meeting, Pocono Manor, Pa.,



- 11/5-7/53.) J. Appl. Phys. 24:1415. 11/53.
- Newberry, Sterling P. 2577  
Microradiography as an approach to X-ray microscopy. (Abstract, Paper #21, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:114. 1953.
- Newberry, Sterling, P. 2578  
X-ray microscope operation and inherent properties. (Abstract, Paper #A12, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1455. 1954.
- Newman, Sanford B. 2579  
A new technique for cutting very thin sections and its application to the electron microscopy of fibers. ASTM Bull. 163:57-60. 1950.
- Newman, Sanford B. 2580  
Some problems in ultramicrotomy. Bull. int. Ass. med. Mus. 32:100-2. 1951.
- Newman, Sanford B. & Emil Borysko 2581  
Techniques for use in the preparation of thin sections. (Abstract, Paper #35, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:114. 1951.
- Newman, Sanford B., Emil Borysko & Max Swerdlow 2582  
Ultra-microtomy by a new method. (Abstract, Paper #11, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:67. 1950.
- Newton, B. A. 2583  
The release of soluble constituents from washed cells of *Pseudomonas aeruginosa* by the action of polymyxin. J. Gen. Microbiol. 9(1):54-64. 8/53.
- Newton, B. A. 2584  
A fluorescent derivative of polymyxin: its preparation and use in studying the site of action of the antibiotic. J. Gen. Microbiol. 12(2):226-36. 4/55.
- Newton, Nelson 2585  
Some effects of high-intensity ultrasound on tobacco mosaic virus. Science. 114:185-6. 8/17/51.
- Newton, Nelson & John W. Kissel 2586  
Biophysical studies of the ultrasonic fragmentation of tobacco mosaic virus. Arch. Biochem. and Biophys. 47(2):424-37. 12/53.
- Newton, Nelson & David W. Rosberg 2587  
An electron microscope study of an undescribed orchid virus. (Abstract, Paper #32, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:70. 1950.
- Newton, Nelson & David W. Rosberg 2588  
Electron-microscope studies of a new orchid virus complex. Phytopathology. 42: 79-82. 2/52.
- Niehurs, H. & E. H. Wagner 2589  
Die Amplituden der Wellenfelder bei Elektronen-interferenzen in Laue-fall. Z. Physik. 143:285-99. 12/55.
- Niemeck, F. W. & D. Ruppig 2590  
Elektrolytische Ätzung von Kathodenspitzen für das Feldelektronenmikroskop. Z. angew. Phys. 6(1):1-3. 1954.
- Niklowitz, Werner 2591  
Über die Herstellung von Ultradünnschnitten mit einer Uhrmacherdrehbank. Mikroskopie. 10(11/12):401-3. 1955.
- Niklowitz, W. & G. Drews 2592  
Zur elektronenmikroskopischen Darstellung der Feinstruktur von *Rhodospirillum rubrum*. (Ergebnisse einer neuen, einfachen Dünnschnittmethode.) Arch. Mikrobiol. 23:123-9. 1955.
- Nilsson, Ove 2593  
Eine Methode zur Elektronenmikroskopie von Zellen aus Gewebekulturen. Z. wiss. Mikroskop. 62(7):441-3. 1955.
- Nishikawa, Fumio & Hideo Fukumi 2594  
Shape and size of hemagglutinating virus of mice (HVM). Japan J. Med. Sci. & Biol. 7(5):513-22. 1954.
- Nishimura, Hideo, Yotaro Murakami & Jin-ichi Takamura 2595  
On the sub-structure of metallic crystals. Tech. Repts. Eng. Research Inst. Kyoto Univ. 1(2):19-27. 1951.
- Nixon, W. C. 2596  
Some new applications of the magnetic lens X-ray microscopy. (Abstract, Paper #A11, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1454. 1954.
- Nixon, W. C. 2597  
High resolution X-ray projection microscopy. X-ray microscopy. Projection microradiography. Proc. Roy. Soc. London. A. 232:475-85. 1955. Research, London. 8:473-83. 12/55, and British J. Radiol. 28(334):532-6. 10/55.
- Noda, Haruhiko & Ralph W. G. Wyckoff 2598  
The electron microscopy of reprecipitated collagen. Biochim. et Biophys. Acta. 7:494-506. 1951.
- Noda, H. & Ralph W. G. Wyckoff 2599  
The electron microscopy of developing bacteriophage. III. Techniques to visualize developing forms. Biochim. et Biophys. Acta. 8:381-8. 4/52.
- Noda, Tokiti, Hiroshi Tomita & Kenichi Miyata 2600  
Electron-microscope observations of carbon brushes. Bull. Chem. Soc. Japan. 26:40-3. 1953.
- Nogare, G. Dalle 2601  
Un metodo di preparazione di provini di pigmenti per microscopia elettronica. Chim. e ind. Milan. 33:546. 11/51.
- Noggle, Thomas Sherman 2602  
The electron microscopy of aluminum crystals deformed at various temperatures. Doctoral dissertation, Univ. of Illinois, July 1955, also Technical Rpt. No. 2. Office of Naval Res. Contract N6 ori 071 (54). July 1955. 65p.
- Noll, W. 2603  
Über den halbgebrannten Dolomit. Angew. Chem. 62:567-72. 12/21/50.

- Noll, W. & H. Kircher 2604  
Zur Morphologie des Chrysotilasbestes.  
Naturwissenschaften. 37:540-1. 1950.
- Noll, W. & H. Kircher 2605  
Über die Morphologie von Asbesten und ihren  
Zusammenhang mit der Kristallstruktur. Neues  
Jahrb. Mineral. 10:219-40. 10/51.
- Noll, W. & H. Kircher 2606  
Synthese des Garnierites. Naturwissen-  
schaften. 39:233-4. 1952.
- Noll, W. & H. Kircher 2607  
Veränderungen von Chrysotilasbest im Elek-  
tronenmikroskop. Naturwissenschaften.  
39:188. 1952.
- Noll, W. & H. Kircher 2608  
Zur Morphologie der Chrysotilasbestfaser.  
Naturwissenschaften. 39:158-9. 4/52.
- Nonaka, Kozo & Kazutake Kohra 2609  
Study on the crystallization process of  
polished layers of metals by electron dif-  
fraction and microscopy. J. Phys. Soc. Japan.  
9(4):512-20. 7-8/54.
- Noordam, Dirk. 2610  
Virusziekten Bijchrysanten in Nederland.  
Thesis for Doctorate at Univ. of Utrecht.  
Wageningen, H. Veenman, 1952, and Tidschr.  
Plantenziekten. 58(5):122-89. 1952.
- Northcote, D. H. & R. W. Horne 2611  
The chemical composition and structure of  
the yeast cell wall. Biochem. J. London.  
51(2):232-6. 1952.
- Norton, James F. 2612  
Recent applications of the X-ray micro-  
scope. (Abstract, Paper #30, Electron Micro-  
scope Society of America Meeting, Pocono Manor,  
Pa., 11/5-7/53.) J. Appl. Phys. 24:1417.  
11/53.
- Norton, James F. & Sterling P. Newberry 2613  
Specimen techniques for use with the X-  
ray shadow microscope. (Abstract, Paper #A14,  
Electron Microscope Society of America Meeting,  
Highland Park, Ill., 10/14-6/54.) J. Appl.  
Phys. 25:1455. 1954.
- Noseda, Idillio 2614  
Elektronenmikroskopische Untersuchungen  
an der normalen Schilddrüse mit besonderer  
Berücksichtigung der Sekretionsvorgänge. Z.  
mikrosk.-anat. Forsch. 60(2):192-204. 1954.
- Nungester, W. J. 2615  
The recovery of the Novy rat virus. Univ.  
Mich. Med. Bull. 19:55-8. 3/53.
- Nutting, J. 2616  
The preparation of replicas from metal wires.  
Conf. of Electron Micros., Delft, 7/49. Proc.  
The Hague, Nijhoff, 1950. :99-100.
- Nutting, J. & V. E. Cosslett 2617  
The dry stripping of formvar replicas from  
etched metal surfaces. In Metallurgical Ap-  
plications of the Electron Microscope. Insti-  
tute of Metals Monograph and Report Series  
No. 8. :65-74. London, 1950.
- Nutting, J. & V. E. Cosslett 2618  
A replica technique for the examination of  
fracture surfaces with the electron microscope.

- In Metallurgical Applications of the Electron  
Microscope. Institute of Metals Monograph and  
Report Series No. 8. :57-63. London, 1950.
- Nutting, J., M. J. Olney & G. C. Smith 2619  
Some observations on the thermal etching of  
iron and steel. 1st Int. Cong. Electron Micros.,  
Paris, 9/50. Proc.:431-4. Paris, Ed. Rev. Op-  
tique, 1953.
- Nygaard, A. P., M. U. Dianzani & G. F. Bahr 2620  
The effect of lecithinase A on the morphology  
of isolated mitochondria. Exptl. Cell Research.  
6:453-8. 5/54.
- Oakley, K. P. 2621  
The composition of the Piltdown hominoid remains.  
Bull. Brit. Museum Geol. 2(6):254-87. 1955.
- Oberlin, A. 2622  
Application of the electron microscope in the  
study of crystallized media. Bull. soc. Franç.  
minéral. et crist. 77:833-9. 1954.
- Oberlin, A., J. Guillaume & G. Chaume 2623  
Exposure meter for the electron microscope:  
description and applications. (Abstract paper  
no. 5, Electron Microscope Society of America  
meeting, Pocono Manor, Pa., 11/5-7/53) J. Appl.  
Phys. 24:1414. 11/53.
- Oberlin-Mathieu-Sicaud, A. & R. Hocart 2624  
Epitaxies studied by electron microscopy and  
electron diffraction. (Abstract, Paper #B3,  
Electron Microscope Society of America Meeting,  
Highland Park, Ill., 10/14-6/54.) J. Appl. Phys.  
25:1457. 1954.
- Oberling, Charles 2625  
Das Elektronenmikroskop im Dienste der Krebs-  
forschung. Wien. klin. Wochschr. 64(37):733-6.  
1952.
- Oberling, Ch. & W. Bernhard 2626  
Die Krebszelle im Elektronenbild. Verhandl.  
deut. Ges. Pathol. 35:89-96. 1951.
- Oberling, Ch., W. Bernhard, A. Dontsheff &  
P. Vigier 2627  
Observation et étude quantitative de corpus-  
cules d'aspect viral dans des cultures de sar-  
come de Rous. Experientia. 10(3):138. 1954.
- Oberling, Ch., W. Bernhard, H. L. Febvre &  
J. Harel 2628  
À propos de l'ultra-chondriome. Rev. hématol.  
6(3):395-400. 1951.
- Oberling, Ch., W. Bernhard, H. L. Febvre &  
J. Harel 2629  
Chondriome et ultra-chondriome observations au  
microscope électronique. Compt. rend. ass. Anat.  
39th Meeting, Clermont-Ferrand, 4/7-9/52. 10 p.
- Oberling, Ch., W. Bernhard, H. L. Febvre &  
J. Harel 2630  
Application de la microscopie électronique à  
l'étude de la cellule cancéreuse. 1st Int. Cong.  
Electron Micros., Paris, 9/50. Proc.:600-6.  
Paris, Ed. Rev. Optique, 1953.
- Oberling, Charles, Wilhem Bernhard, Henri L.  
Febvre, Jacques Harel & Roger Klein 2631  
L'existence d'un ultra-chondriome dans les  
cellules normales et tumorales. Compt. rend.  
acad. sci. 231:1260-2. 11/27/50.
- Oberling, Ch., W. Bernhard, H. L. Febvre, J.  
Harel & R. Klein 2632



Sur la présence d'éléments granulo-filamenteux (ultrachondriome?) dans des cellules normales et pathologiques et notamment dans des cellules cancéreuses. *Compt. rend. soc. biol.* 144:934. 7/50.

Oberling, Ch., W. Bernhard, A. Gautier & Françoise Haguenau 2633  
Les structures basophiles du cytoplasme et leurs rapports avec le cancer. *Etude au microscope électronique. Presse. méd.* 61:719-24. 5/20/53.

Oberling, Ch., W. Bernhard, M. Guerin & J. Harel 2634  
Images de cellules cancéreuses au microscope électronique. *Bull. assoc. franç. étude cancer.* 37(2):97-109. 1950.

Oberling, Ch., A. Gautier & W. Bernhard 2635  
La structure des capillaires glomérulaires vue au microscope électronique. *Presse méd.* 59:938-40. 7/4/51.

O'Brien, Harold C., Jr. 2636  
Transfer of replica from metal to electron microscope. *Metal Progr.* 58:732. 11/50.

Odor, D. Louise 2637  
Observations of the rat mesothelium with the electron and phase microscopes. *Am. J. Anat.* 95(3):433-66. 1954.

Ogawa, Kiyokazu & Noboru Takahashi 2638  
Studies on the wear of case hardened steel by electron microscopy. 1st Int. Cong. Electron Micros., Paris, 9/50. *Proc.*:413-5. Paris, Ed. Rev. Optique, 1953.

Ogiwara, S. & T. Okita 2639  
The size distribution of sea salt nuclei and its contribution to visibility. *Science Repts. Tohoku Univ. Fifth Ser.* 3(2):78-86. 9/51.

Ogiwara, S. & T. Okita 2640  
Electron microscope study of cloud and fog nuclei. *Tellus.* 4(3):233-40. 1952.

Ohashi, K. & S. Takeuchi 2641  
Electron shadow microscopy and diffraction of the growing crystals of TiO<sub>2</sub> (rutile type). (in Japanese) *Kagaku (Tokyo).* 24:473-4. 1954.

Ohmachi, Hokuichiro & Tomoro Hagawara 2642  
On the studies of structure and texture of the manganiferous iron ore by electron microscopy. (in Japanese) *Kagaku (Tokyo).* 25: 637-8. 1955.

Okada, Shinzō & Saburo Magari 2643  
An electron microscopic study of copper electrodes in sulfate copper plating bath (II). *Bull. Eng. Research Inst., Kyoto Univ.* 5:83-4. 1954.

Okada, Shinzō & Saburō Magari 2644  
Electron microscope studies on copper deposits from sulfate and cyanide baths. *J. Electrochem. Soc. Japan.* 102:580-5. 10/55.

Okada, Shinzō & Saburō Magari 2645  
Morphology of barium sulfate as seen through electron microscopy. *Anal. Chem.* 27:1481-4. 9/55.

Okada, Shinzō, Saburō Magari & Kentaro Katsui 2646  
Electron microscope studies on copper elec-

trodes. *Bull. Eng. Research Inst., Kyoto Univ.* 7:123-6. 3/55

Okamura, Seizo, Juro Tanaka & Hideshi Tamamura 2647  
Electron-microscopic investigation on the emulsion polymerization of vinylacetate. 1st Int. Cong. Electron Micros., Paris, 9/50. *Proc.*:505. Paris, Ed. Rev. Optique, 1953.

O'Kelley, Joseph & P. H. Carr 2648  
An electron micrographic study of the cell walls of elongating cotton fibers, root hairs, and pollen tubes. *Am. J. Botany.* 41(3):261-4. 1954.

Okita, T. 2649  
Electron microscope study of ice-crystal nuclei in the natural atmosphere. *Science Repts. Tohoku Univ. 5th Ser.* 4(2):78-82. 1952.

Okuno, H. 2650  
Electron microscopical study of fine structures of diatom frustules. IX. *Botan. Mag., Tokyo.* 65:158-63. 1952.

Okuno, Haruo 2651  
Electron-microscopical study on antarctic diatoms. III. *J. Jap. Bot.* 27:347-56. 1952.

Okuno, H. 2652  
Electron-microscopical study of antarctic diatoms. IV. *J. Jap. Bot.* 28:171-8. 6/53.

Okuno, Haruo 2653  
Electron-microscopical study of fine structures of diatom frustules. X. *Botan. Mag. Tokyo.* 66(775/8):5-8. 1953.

Okuno, H. 2654  
Electron-microscopical study on fine structures of diatom frustules. XI. *Botan. Mag. Tokyo.* 66(779/80):121-4. 1953.

Okuno, Haruo 2655  
Study on superfine structure of diatom frustules. 1st Int. Cong. Electron Micros., Paris, 9/50. *Proc.*:758-9. Paris, Ed. Rev. Optique, 1953.

Okuno, H. 2656  
Electron-microscopic fine structure of fossil diatoms. I. *Trans. and Proc. Palaeontol. Soc. Japan. N.S.,* 13:125-30. 6/15/54.

Okuno, H. 2657  
Electron-microscopic fine structure of fossil diatoms. II. *Trans. and Proc. Palaeontol. Soc. Japan. N.S.,* 14:143-8. 8/15/54.

Okuno, Haruo 2658  
Electron-microscopic fine structure of some marine diatoms. *Rev. cytol. et biol. Vegetales.* 15(3):237-44. 1954.

Okuno, H. 2659  
Electron-microscopical study of fine structures of diatom frustules. XII. *Botan. Mag., Tokyo.* 67(793/4):172-7. 1954.

Okuno, H. 2660  
Electron-microscopical study on antarctic diatoms. V. *J. Jap. Bot.* 29:18-25 1/54.

Okuno, H. 2661  
Electron-microscopical study on antarctic diatoms. Observation *Cocconeis peticola* forming "diatom film" on whale skin. *J. Jap. Bot.*



29:271-8. 1954.

Okuno, Haruo 2662  
Electron-microscopical study on fine structures of diatom frustules. XIII. Bot. Mag. Tokyo. 68(802):125-8. 4/55.

Okura, Takuji 2663  
Electron microscopy of various basic dyes. (in German) Arch. hist. Japon. 4(3):281-90. 1952.

Okura, Takuji 2664  
Elektronenmikroskopie des Hämatoxylin während der Oxydation und der durch Heparinzusatz metachromatisch veränderten basischen Farbstoffe. Arch. hist. Japon. 8(3):407-20. 5/55.

On the development of electron microscopical methods of research in the U.S.S.R. 2665  
(Editorial, in Russian) Zavodskaya Lab. 12:1411-6. 1952.

Ornstein, L., M. Gettner & J. Leon 2666  
An electron micrographic study of mitochondria and microsomes. (Abstract) Anat. Record. 111:471. 11/51.

Ornstein, Leonard & Arthur W. Pollister 2667  
Applications of phase microscopy in cytology and electron micrography. Trans. N.Y. Acad. Sci. 14(5):194-9. 3/52.

Ortavant, Robert 2668  
L'appareil acrosomique du spermatozoide de Belier. Compt. rend. acad. sci. 239:830-2. 1954.

Orth, E. & O. Ruziczka 2669  
Untersuchungen am Elektronenmikroskop über die Chloromycetin-Wirkung. Wien. med. Wochschr. 100(33/34):570-1. 1950.

Orth, E. & O. Ruziczka, 2670  
Über den Einfluss vorbereitender Massnahmen auf die Morphologie der Mikroorganismen bei Untersuchungen im Elektronenmikroskop. Klin. Med. 7:31-4. 1/52.

Osaki, Yoshikatsu 2671  
A simplified procedure for electron microscopy of the elementary body of ectromelia virus. (in Japanese) Virus, Kyoto. 3(2): 158-9. 1953.

Ottoson, D., F. Sjöstrand, S. Stenstrom & G. Svaetichin 2672  
Microelectrode studies on the E.M.F. of the frog skin related to electron microscopy of the dermo-epidermal junction. Acta Physiol. Scand. 29(106):611-24. 1953.

Ouboter, Maria P. de Bruyn, J. J. Beijer & E. van Slogteren 2673  
Diagnosis of plant diseases by electron microscopy. Antonie van Leeuwenhoek. J. Microbiol. Serol. 17:189-208. 1951.

Ozaway, Yoshiji 2674  
Studies on dengue fever virus by electron microscopy. Yokohama Med. Bull. 5:72-5. 1954.

Padden, Thomas R. 2675  
The application of cathodic vacuum etching to electron metallography. (Abstract, Paper D5., Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.)

J. Appl. Phys. 25:1459. 1954

Page, R. S. 2676  
A compact console-type electron microscope. J. Sci. Instr. 31:200-5. 6/54.

Page, R. S. & A. W. Agar 2677  
A specimen screening aperture for the electron microscope. J. Sci. Instr. 31:27. 1/54.

Page, R. S. & R. G. Garfitt 2678  
An electron-diffraction instrument. J. Sci. Instr. 29:398-401. 12/52.

Pahlke, Gunter 2679  
Elektronenmikroskopische Untersuchungen an der interzellulärsubstanz des menschlichen Sehnervengewebes. Z. Zellforsch. u. mikroskop. Anat. 39:421-30. 1954.

Palade, G. E. 2680  
The fine structure of mitochondria. Anat. Record. 114(3):427-51. 1952.

Palade, G. E. 2681  
A study of fixation for electron microscopy. J. Exptl. Med. 95:285-98. 3/1/52.

Palade, George E. 2682  
An electron microscope study of the mitochondrial structure. J. Histochem. Cytochem. 1(4):188-211. 7/53.

Palade, George E. 2683  
Fine structure of blood capillaries. (Abstract paper no. 70, Electron Microscope Society of America meeting, Pocono Manor, Pa., 11/5 - 7/53.) J. Appl. Phys. 24:1424. 11/53.

Palade, George E. 2684  
A small particulate component of the cytoplasm. (Abstract paper no. 42, Electron Microscope Society of America meeting, Pocono Manor, Pa., 11/5 - 7/53.) J. Appl. Phys. 24:1419. 11/53.

Palade, G. E. 2685  
Relations between the endoplasmic reticulum and the plasma membrane in macrophages. Anat. Record. 121(2):445. 1955.

Palade, George E. 2686  
A small particulate component of the cytoplasm. J. Biophys. Biochem. Cytol. 1(1):59-68. 1/25/55.

Palade, George E. 2687  
Studies on the endoplasmic reticulum. II. Simple dispositions in cells in situ. J. Biophys. Biochem. Cytol. 1(6):567-82. 11/25/55.

Palade, George E. & Sanford L. Palay 2688  
Electron microscope observations of inter-neuronal and neuromuscular synapses. Anat. Record. 118:335. 2/54.

Palade, George E. & Keith R. Porter 2689  
Studies on the endoplasmic reticulum. I. Its identification in cells in situ. J. Exptl. Med. 100(6):641-56. 12/1/54.

Palade, G. E. & P. Siekevitz 2690  
Correlated structural and chemical analysis of microsomes. Federation Proc. 14(1):262. 1955.

Palay, Sanford L. & George E. Palade 2691  
Fine structure of neuronal cytoplasm.

(Abstract, Paper #43(A), Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1419. 11/53.

Palay, Sanford L. & George E. Palade 2692  
The fine structure of neurons. J. Biophys. Biochem. Cytol. 1(1):69-88. 1955.

Pande, A. & K. Bahadur 2693  
Design of a radio frequency high voltage capacitor for electron microscope. J. Sci. Ind. Research, India. 11B(10):408-11. 1952.

Pankhurst, Kenneth G. A. 2694  
Monolayer structure as revealed by electron microscopy. J. Phys. Chem. 59:480. 1955.

Panzer, S. 2695  
Erzeugung hoher Gleichspannung mittels Hochfrequenz. Optik. 7:290-3. 10-12/50.

Panzer, Siegfried 2696  
Improvements in electrostatic electron-beam apparatus, particularly the electron microscope and high-power oscillograph. (in German)  
German Patent no. 821, 815. 11/22/51.

Panzer, Siegfried 2697  
Spannungsanlage für das AEG-Zeiss-Elektronenmikroskop EM 8. A E G Mitt. 9/10:10-12. 10/51.

Panzer, S. 2698  
Hochfrequenz-Hochspannungsanlagen für die Mikroskopie mit Zwischenbeschleuniger. Optik. 10:107-10. 1953.

Pardee, Arthur B., Howard K. Schachman & Roger Y. Stanier 2699  
Chromatophores of *Rhodospirillum rubrum*. Nature. 169:282-4. 2/16/52.

Passey, R. D., L. Dmochowski, R. Reed & W. T. Astbury 2700  
Biophysical studies of extracts of tissues of high- and low-breast-cancer-strain mice. Biochim. et Biophys. Acta. 4:391-409. 1950.

Passey, R. D., L. Dmochowski, W. T. Astbury, R. Reed & G. Eaves 2701  
Electron microscope studies of human breast cancer. Nature. 167:643-4. 4/21/51.

Passey, R. D., L. Dmochowski, W. T. Astbury, R. Reed & P. Johnson 2702  
Electron microscope studies of normal and malignant tissues of high- and low-breast-cancer strains of mice. Nature. 165:107. 1/21/50.

Paul, H. L. & O. Bode 2703  
Elektronenmikroskopische Untersuchungen über Kartoffelviren. II. Vermessung der Teilchen von drei Stämmen des Rattle-Virus. Phytopathol. Z. 24(3):341-51. 1955.

Pauthenier, Marcel & René Challaude 2704  
Observation des dépôts de précipitation électrique au microscope électronique. Compt. rend. acad. sci. 235:1113-5. 10/11/52.

Payne, A. M. M. 2705  
Influenza virus electron micrographs. World Health Organization Bull. 8:55-92. 1953.

Payne, John I., Philip E. Hartman, Stuart Mudd & Charlotte Liu 2706  
Cytological analysis of ultraviolet irradi-

ated *Escherichia coli*. II. Ultraviolet induction of lysogenic *E. coli*. J. Bacteriol. 70(5):540-6. 1955.

Peacock, N., J. Sikorski & H. J. Woods 2707  
Crystalline structure of the cuticular sheath of wool fibres. Nature. 167:408. 3/10/51.

Pearson, E. C., H. J. Huff & R. H. Hay 2708  
A metallographic study of pitting corrosion induced in 2S aluminum alloy by exposure to tap water. Can. J. Technol. 30:311-6. 1952

Pease, Daniel C. 2709  
Electron microscopy of human skin. Am. J. Anat. 89:469-98. 11/51.

Pease, Daniel C. 2710  
Electron microscopy of sectioned teeth. Anat. Record. 110:539-47. 8/51.

Pease, Daniel C. 2711  
Triple embedding for the ultrathin sectioning required by electron microscopy. Anat. Record. 110:531-8. 8/51.

Pease, D. C. 2712  
Further studies of the kidney cortex by electron microscopy. (Abstract). Anat. Record. 118:336. 2/54.

Pease, D. C. 2713  
Electron microscopy of the vascular bed of the kidney cortex. Anat. Record. 121:701-21. 1955.

Pease, D. C. 2714  
Electron microscopy of tubular cells of kidney cortex. Anat. Record. 121:723-43. 1955.

Pease, Daniel C. 2715  
Fine structures of the kidney seen by electron microscopy. J. Histochem. Cytochem. 3(4):295-308. 7/55.

Pease, D. C. 2716  
Marrow cells seen with the electron microscope after ultrathin sectioning. Rev. hématol. 10(2):300-13. 1955.

Pease, Daniel C. 2717  
Nodes of Ranvier in the central nervous system. J. Comp. Neurol. 103(1):11-5. 1955.

Pease, Daniel C. & Richard F. Baker 2718  
Electron microscopy of the kidney. Am. J. Anat. 87:349-89. 11/50.

Pease, Daniel C. & Richard F. Baker 2719  
Electron microscopy of the kidney. (Abstract, Paper #36, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50). J. Appl. Phys. 22:114. 1951.

Pease, Daniel C. & Richard F. Baker 2720  
Electron microscopy of nervous tissue. Anat. Record. 110:505-30. 8/51.

Pease, Daniel C., Richard F. Baker & Oliver Warren 2721  
Electron microscopy of the kidney. Univ. S. Calif. Med. Bull. 2(4):9-15. 7/50.

Pease, R. S. 2722  
The determination of electron microscope magnification. J. Sci. Instr. 27:182-6. 7/50.

Peck, Virgil and Wilbur Kaye 2723  
An electron microscope study of the internal



structure of cellulose acetate fibers and films. (Abstract, Paper #27, Electron Microscope Society of America Meeting, Philadelphia. Pa., 12/8-10/51.) J. Appl. Phys. 23:160. 1/52.

Peck, Virgil & Wilbur Kaye 2724  
Abrasion of fibers and guides in manufacturing cellulose acetate yarn. (Abstract, Paper #25, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53. J. Appl. Phys. 24:1416. 11/53.

Peck, Virgil & Wilbur Kaye 2725  
An electron microscope study of the skin on cellulose acetate fibers. (Abstract, Paper #17, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:113. 1953.

Peck, Virgil & Wilbur Kaye 2726  
Application of electron microscopy to the study of cellulose acetate fibers. Textile Research J. 24(4):300-6. 1954.

Peck, Virgil & Wilbur Kaye 2727  
Behavior of crystallites of polyethylene. (Abstract, Paper #13, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1465. 1954.

Peck, Virgil & Wilbur Kaye 2728  
Solvent etching of cellulose acetate specimens for electron microscopy. Textile Research J. 24(4):295-300. 1954.

Pellissier, George E. 2729  
The electron microstructure of an eutectoid steel. (Abstract, Paper #3, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:110. 1951.

Penso, Giuseppe 2730  
The cycle of development of a mycobacteriophage in its host cell. (Abstract, Paper #31, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1417. 11/53.

Penso, Giuseppe 2731  
Studi e ricerche sui micobatteri. XIII. Sull'esistenza di un micelio vero e ramificato in tutte le specie del genere *Mycobacterium*. Rend. ist. super. sanità. 18:13-6. 1955.

Penso, Giuseppe, Gina Castelnuovo & Mario Princivale 2732  
Studi e ricerche sui micobatteri. IX. La demolizione fagica del *Mycobacterium minetti*. Rend. ist. super. sanità. 15:549-54. 1952.

Perner, E. S. & G. Pfeifferkorn 2733  
Pflanzliche Chondriosomen im Licht- und Elektronenmikroskop. Flora (Ger.) 140:98-129. 4/30/53.

Pernoux, E. 2734  
Etude et interprétation des franges électroniques dans les cristaux minces. J. phys. radium. 13:49S. 1952.

Pernoux, E. 2735  
Franges électroniques possédant un centre de symétrie. J. phys. radium. 13(Suppl. 7):135A-6A. 1952.

Pernoux, E. & S. Teichner 2736

Examen au microscope électronique des catalyseurs au nickel de la synthèse Fischer. 1st Int. Cong. Electron Microsc., Paris, 9/50. Proc. :506-11. Paris, Ed. Rev. Optique, 1953.

Perron, Robert R. & Barbara A. Wright 2737  
Alteration of collagen structure by irradiation with electrons. Nature. 166:863. 11/18/50.

Perry, S. V. 2738  
The protein components of the isolated myofibril. Biochem. J. 55(1):114-22. 1953.

Perry, S. V. & R. W. Horne 2739  
The intracellular components of skeletal muscle. Biochim. et Biophys. Acta. 8:483-98. 1952.

Perryman, E. C. W. & Sheila Vernon-Smith 2740  
Correlation between electron and optical microscopical observation of metal surfaces. J. Roy. Microscop. Soc. 72(2):99-101. 11/52.

Peters, A. 2741  
Experiments on the mechanism of silver staining. IV. Electron microscope studies. Quart. J. Microscop. Sci. 96(3):317-22. 9/55.

Peters, D. 2742  
Blutparasiten im Elektronenmikroskop. Mikrokosmos. 41(3):1-4. 12/51.

Peters, Dietrich 2743  
Morphologie und Biochemie tierpathogener Virusarten. Verhandl. deut. Ges. Pathol. 38:14-37. 1954.

Peters, D. & Th. Nasemann 2744  
Enzymatisch-morphologische Untersuchungen am Vaccinevirus. Naturwissenschaften. 39(13):306-7. 1952.

Peters, Dietrich & Theodor Nasemann 2745  
Untersuchungen am Virus der Variola-vaccine. I. Über den Wert der Tuffpräparation für die elektronenoptische Abbildung und Ausmessung von Elementarkörpern. Z. Tropenmed. u. Parasitol. 4(1):11-25. 10/52.

Peters, Dietrich & Theodor Nasemann 2746  
Untersuchungen am Virus der Variola-Vaccine. II. Mitt. Nachweis von Elementarkörperstadien mittels enzymatisch-elektronenoptischer Analyse. Z. Naturforsch. 8b(10):547-55. 1953.

Peters, D. & E. Otten 2747  
Elektronenoptische Befunde an der Cuticula von Zecken (*Ornithodoros moubata*). Optik. 7:329-31. 10-12/50.

Peters, D. & Walther Stoeckenius 2748  
Enzymatisch-Elektronenoptische Untersuchungen an Viren der Pockengruppe. 6th Congr. Intern. Microbiol., Rome, 9/53 Atti. I(1):80-2.

Peters, Dietrich & Walther Stoeckenius 2749  
Elektronenoptische Untersuchungen über die Elementarkörperstruktur des *Molluscum contagiosum*-Virus. Z. Tropenmed. u. Parasitol. 5(3):329-41. 7/54.

Peters, D. & W. Stoeckenius 2750  
Structural analogies of pox viruses and bacteria. Nature. 174:224. 7/31/54.

Peters, D. & W. Stoeckenius 2751  
Untersuchungen am Virus der Variola-Vaccine. III. Mit: Enzymatischer Abbau des Innenkörpers. Z. Naturforsch. 9b:524-9. 8/54.



- Peters, D. & Reinhard Wigand 2752  
Elektronenmikroskopische Untersuchung der  
Struktur Hämolyzierter Reticulocyten. Klin.  
Wschr. 28(37/38):649-53. 1950.
- Peters, Dietrich & Reinhard Wigand 2753  
Zur Morphologie und Klassifizierung von  
Eperythrozoon coccoides. Z. Naturforsch.  
6b(6):326-33. 1951.
- Peters, Dietrich & Reinhard Wigand 2754  
Neue Untersuchungen über Bartonella bacilli-  
formis. I. Morphologie der Kulturform. Z.  
Tropenmed. u. Parasitol. 3(3):313-26. 1952.
- Peters, D. & R. Wigand 2755  
Electron microscope study of Eperythrozoon  
coccoides. 1st Int. Cong. Electron Micros.,  
Paris, 1950. Proc.:733-5. Paris, Ed. Rev.  
Optique, 1953.
- Peters, Dietrich & Reinhard Wigand 2756  
Enzymatisch-elektronenoptische Analyse der  
Nucleinsäureverteilung, dargestellt an Escher-  
ichia coli als Modell. Z. Naturforsch. 8b:  
180-92. 1953.
- Peters, D. & R. Wigand 2757  
Bartonellaceae. Bacteriol. Rev. 19(3):  
150-5. 9/55.
- Peters, I. I. & J. W. Dietrich 2758  
Electron microscope observations on rennet  
action upon skim milk. Texas J. Sci. 4:442-9.  
1954.
- Peterson, W. H. & A. Bondi 2759  
A study of soap aerogels from lubricating  
greases. J. Phys. Chem. 57:30-5. 1953.
- Pfaff, Werner 2760  
Über den Feinbau der Fibrillen aus der Kutik-  
ula von Periplaneta americana, L. Naturwiss-  
enschaften. 14:386-7. 1953.
- Pfefferkorn, G. 2761  
Elektronenmikroskopische Untersuchungen an  
Kalkspat und dessen Realkristallbau. Optik.  
7:208-16. 4-5/50.
- Pfefferkorn, G. 2762  
Elektronenmikroskopische Untersuchungen zur  
Frage der Symmetriestimmung durch Ätzfiguren.  
Fortschr. Mineral. 29-30(1):34-8. 1950-1.
- Pfefferkorn, G. 2763  
Der Realbau der Kristalle und eine Unter-  
suchung mit dem Elektronenmikroskop. Umschau.  
18:557-9. 1951.
- Pfefferkorn, Gerhard 2764  
Vergleichende Untersuchungen über den Miner-  
alinhalt von Silikoselungen. Arch. Hyg. u.  
Bakteriol. 135(1):14-22. 1951.
- Pfefferkorn, G. 2765  
Topochemische Reaktionen an Einkristallober-  
flächen und Kristallisation von Reaktions-  
produkten. Tech. Mitt. Krupp. 45(7):210-13.  
7/52.
- Pfefferkorn, Gerhard 2766  
Untersuchungen zum Realbau von Kalkspat.  
Neues Jb. Mineral. Abhandl. 84(3):281-326.  
9/52.
- Pfefferkorn, Gerhard 2767  
Elektronenmikroskopische Untersuchungen über

- den Oxydationsvorgang von Metallen. Natur-  
wissenschaften. 40(21):551-2. 11/53.
- Pfefferkorn, G. 2768  
Zur Wirkungsmöglichkeit fester Aerosole in  
der Lunge. Z. Aerosol-Forsch. u. Therap.  
2(4):484-91. 1953.
- Pfefferkorn, G. 2769  
Die Bildung von Metalloxyden und deren redu-  
ktion. Rapport Europées Congrès. Toeg. Em.  
Gent, 4/7-10/54. :299-302.
- Pfefferkorn, G. 2770  
Elektronenmikroskopische Beobachtungen an  
Aerosolen. Arch. Hyg. u. Bakteriologie. 138(8):  
599-603. 1954.
- Pfefferkorn, G. 2771  
Elektronenoptische Kristallanalyse von Ge-  
werbe- und Lungenstauben. Staublungener-  
krankungen. 2:233-7. 1954.
- Pfefferkorn, G. 2772  
Elektronenmikroskopische Untersuchungen zum  
Kristallwachstum von Oxyden. Z. wiss. Mikros-  
kop. 62(2):107-15. 12/54.
- Pfefferkorn, Gerhard 2773  
Elektronenmikroskopische Untersuchungen an  
Metalloxydschichten. Z. Metallkunde. 46(3):  
204-7. 1955.
- Pfefferkorn, G. 2774  
Elektronenmikroskopische Untersuchungen zur  
Staubniederschlagung durch Aerosole. Z. Aero-  
sol-Forsch. u. Therap. 4(6):531-7. 1955.
- Pfefferkorn, G. & H. Westermann 2775  
Ätzfiguren auf Kalkspat im submikroskopischen  
Gebiet. Neues Jahrb. Mineral. 5:97-107. 1950.
- Pfefferkorn, G. & H. Westermann 2776  
Elektronenmikroskopische Untersuchung der  
Deformation von Kalkspat. Neues Jahrb. Mineral.  
Monatsh. 4:97-103. 4/52.
- Pfefferkorn, G. & H. Westermann 2777  
Untersuchung topochemischer Reaktionen an  
Kalkspat. Z. wiss. Mikroskop. 60:397-401.  
3/52.
- Pfefferkorn, G. & K. E. Wohlfarth-Bottermann 2778  
Das Artefaktproblem und die Deutung elektron-  
enmikroskopischer Aufnahmen bei organischen  
Präparaten. Medizinische. 16:599-603.  
4/16/55.
- Pfeiffer, Irmtraud 2779  
Eigenoxydation zur Gewinnung von Volien für  
die Elektronenmikroskopie von Metallen. Z.  
Metallkunde. 46(8):569-73. 1955.
- Pfeiffer, Irmtraud 2780  
Kohlaufdampfschichten aus dem Lichtbogen  
für elektronenmikroskopische Oberflächenabbil-  
dung. Naturwissenschaften. 42(18):508-9. 1955.
- Pfisterer, Hermann 2781  
Ein Abdruckverfahren zur Abbildung rauher  
Oberflächen im Elektronenmikroskop. Naturwiss-  
enschaften. 40(3):199. 1953.
- Pfisterer, Hermann 2782  
Elektronenmikroskopische Bruchgefügeunter-  
suchungen an Sinterwerkstoffen. Siemens-Z.  
29(5/6):199-205. 1955. Engng. Dig., N. Y.  
16:425-8. 1955.

PHILIP

#2783

- Philip, Bo & Gösta Lagermalm 2783  
A contribution to the knowledge of the surface structure of wool. Conf. of Electron Micros., Delft, 7/49. Proc. The Hague, Nijhoff, 1950. :166-9.
- Philip, B., G. Lagermalm & N. Gralen 2784  
Electron microscopy of the surface structure of feather. Biochim. et Biophys. Acta. 6:497-507. 3/51.
- Philpott, Delbert E. 2785  
Portrait shadow-casting. J. Appl. Phys. 22:982-3. 7/51.
- Philpott, D. E. 2786  
Direct printing in electron microscopy by the Diaversal process. J. Biol. Phot. Assoc. 21(4):17-8. 1953.
- Philpott, Delbert E. 2787  
Electron microscopic investigation of bumble bee wing muscle. Biol. Bull. 107(2):302. 1954.
- Philpott, Delbert E. 2788  
A method of sectioning for the electron microscope. Exptl. Med. and Surg. 12:445-9. 1954.
- Philpott, D. E. & A. G. Szent-Györgyi 2789  
An electron microscopical study of L-meromyosin. (Abstract, Paper #53, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1421. 11/53.
- Philpott, Delbert E. & Andrew G. Szent-Györgyi 2790  
The structure of light-meromyosin: an electron microscopic study. Biochim. et Biophys. Acta. 15:165-73. 10/54.
- Philpott, Delbert E. & A. Szent-Györgyi 2791  
Observations on the electron microscopic structure of insect muscle. Biochim. et Biophys. Acta. 18:177-82. 10/55.
- Piacentini, Luigi 2792  
Beitrag zum Studium der Tumorzellen im Elektronenmikroskop. Mikroskopie. 5:242-7. 1950.
- Picard, R. G. & E. G. Dornfeld 2793  
A specimen heater for electron diffraction. (Abstract, Paper #6, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:112. 1953.
- Picard, R. G. & J. E. Joy 2794  
A metal evaporator using high frequency induction heating. (Abstract, Paper #14, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:111. 1951.
- Picht, Johannes & Rolf Gain 2795  
Das Elektronenmikroskop; eine allgemeinverständliche Darstellung seiner physikalischen und technischen Grundlagen und seiner Anwendung in Physik, Technik, Medizin und Biologie. Leipzig, Fachbuchverlag, 1955. 146 p.
- Pickles, V. A. 2796  
The electron microscope and its application to metallurgy. Trans. Australian Inst. Metals. 6:178-86. 1953. Australasian Eng.:61-9. 10/7/53.

POLICARD

#2811

- Pickup, E. 2797  
Grain size in Ilford G5 emulsions. Can. J. Phys. 31:898-900. 1953.
- Piel, Carolyn F., Luther Dong, F. W. S. Modern, J. R. Goodman & Roger Moore 2798  
The glomerulus in experimental renal disease in rats as observed by light and electron microscopy. J. Exptl. Med. 102(5):573-80. 11/1/55.
- Pierce, J. J. 2799  
Metallography with electron streams. Metal Progr. 580-90. 10/50.
- Pinsker, Z. G. 2800  
Electronographic and electronmicroscopic study of clay minerals. Trudy Biogekhim. Lab. Akad. Nauk S.S.S.R. 10:116-41. 1954.
- Pischinger, Alfred 2801  
Über die Verwendungsmöglichkeit des Elektronenmikroskops in der zyto- und histologischen Forschung. Mikroskopie. 5:287-9. 1950.
- Pitelka, Dorothy R. & Caroline N. Schooley 2802  
Comparative morphology of some protistan flagella. Univ. Calif. Berkeley Publs. Zool. 61(2):79-128. 1955.
- Poche, Reinhard & Erich Lindner 2803  
Untersuchungen zur Frage der Glanzstreifen des Herzmuskelgewebes beim Warmblüter und beim Kaltblüter. Z. Zellforsch. u. mikroskop. Anat. 43:104-20. 1955.
- Poetschke, Gerd 2804  
Die Pleuropneumoniegruppe der Mikroorganismen und ihre Bedeutung für die Medizin. Klin. Wochschr. 32(11/12):241-5. 1954.
- Pohlman, C. & L. M. Niebylski 2805  
Comparator for measuring electron diffraction patterns. (Abstract, Paper #7, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26:1392. 1955.
- Policard, Albert & Marcel Bessis 2806  
Le centrosome des leucocytes de Vertébrés étudié par microcinématographie en contraste de phase et au microscope électronique. Compt. rend. acad. sci. 234:913-5. 2/25/52.
- Policard, A. & M. Bessis 2807  
Étude au microscope électronique de la micro-incinération des cellules. Le leucocyte polynucléaire neutrophile. Compt. rend. soc. biol. 146:540. 4/52.
- Policard, A. & M. Bessis 2808  
Étude microcinématographique et microélectronique du centre cellulaire des leucocytes des vertébrés. Exptl. Cell Research. 4(1):202-7. 1953.
- Policard, Albert & Marcel Bessis 2809  
Histologie classique et microscope électronique. Bull. microscop. appl. 3(11 12):149-52. 1953.
- Policard, A. & M. Bessis 2810  
Questions d'actualité. Le microscope électronique et les recherches histologiques. Rev. belg. pathol. et méd. exptl. 23(6):412-8. 12/54.
- Policard, A. & M. Bessis 2811



Étude au microscope électronique de la centrophère des leucocytes des mammifères. Exptl. Cell Research. 8:583-5. 1955.

Policard, A. & M. Bessis 2812  
La microscopie électronique et l'histo-pathologie. Presse méd. 63(74):1527. 1955.

Policard, A., M. Bessis & M. Bricka 2813  
La fixation des cellules isolées observée au contraste de phase et au microscope électronique. I. Action des différents fixateurs. Bull. microscop. appl. 2:29-42. 3-4/52.

Policard, A., M. Bessis & M. Bricka 2814  
La fixation des cellules isolées observée au contraste de phase et au microscope électronique. II. Étude sur la congélation-dessiccation (méthode d'Altmann-Gersh). Bull. microscop. appl. 3(7/8):102-9. 1953.

Policard, A., M. Bessis, A. Collet & L. Gilttaire-Ralyte 2815  
Une formation submicroscopique cellulaire peu connue: les microvillosités. Bull. microscop. appl. 5(11/12):133-8. 1955.

Policard, Albert, A. Collet & L. Gilttaire-Ralyte 2816  
Étude au microscope électronique des poussières de houille renfermées dans les poumons des mineurs au charbon. Compt. rend. acad. sci. 236:1458-60. 4/13/53.

Policard, Albert, André Collet & Lucette Gilttaire-Ralyte 2817  
Étude au microscope électronique des poussières minérales renfermées dans les scléroses pulmonaires silicotiques. Compt. rend. acad. sci. 235:224-5. 7/21/52.

Policard, A., A. Collet & L. Gilttaire-Ralyte 2818  
Recherches au microscope électronique sur les fibroses pulmonaires silicotiques. Presse med. 60(67):1419-21. 10/22/52.

Policard, A., A. Collet & L. Gilttaire-Ralyte 2819  
L'alvéole pulmonaire au microscope électronique. Presse méd. 62:1775-7. 12/25/54.

Policard, Albert, André Collet & Lucette Gilttaire-Ralyte 2820  
Étude au microscope électronique de la cellule alvéolaire de mammifère. Compt. rend. acad. sci. 239:573-5. 8/23/54.

Policard, A., A. Collet & L. Gilttaire-Ralyte 2821  
Étude au microscope électronique de l'action des poussières de silice sur les plasmocytes et les cellules reticulo-histiocytaires des mammifères. Rev. hématol. 9(3):403-17. 1954.

Policard, Albert, André Collet & Lucette Gilttaire-Ralyte 2822  
Étude au microscope électronique de tissus lymphohistiocytaires de mammifères au cours de leurs réactions vis-à-vis de la silice. Compt. rend. acad. sci. 238:2478-80. 6/28/54.

Policard, Albert, André Collet & Lucette Gilttaire-Ralyte 2823  
Étude au microscope électronique de la "bordure en brosse" du tube urinaire des mammifères. Compt. rend. acad. sci. 239:936-8. 10/18/54.

Policard, Albert, André Collet & Lucette Gilttaire-Ralyte 2824  
Étude au microscope électronique des capillaires pulmonaires chez les mammifères. Compt. rend. acad. sci. 239:687-9. 9/20/54.

Policard, Albert, André Collet & Lucette Gilttaire-Ralyte 2825  
Étude au microscope électronique des premiers stades de la fibrose dans le granulome silicotique. Compt. rend. acad. sci. 239:1449-51. 11/29/54.

Policard, Albert, André Collet & Lucette Gilttaire-Ralyte 2826  
Recherches au microscope électronique sur les fibres élastiques du poumon. Bull. microscop. appl. 2(4):139-43. 11-12/54.

Policard, A., A. Collet & L. Gilttaire-Ralyte 2827  
Sur la résistance des structures fibreuses pulmonaires aux processus de cadavérisation. Étude microélectronique. Compt. rend. soc. biol. 148:776. 4/54.

Policard, A., A. Collet & L. Gilttaire-Ralyte 2828  
Bordure superficielle de pseudopodes au niveau des cellules mesothéliales du revêtement péritonéal chez les mammifères. Experimentia. 11(4):152. 1955.

Policard, Albert, André Collet & Lucette Gilttaire-Ralyte 2829  
Constitution inframicroscopique des cils vibratiles des bronchioles du poumon des mammifères. Compt. rend. acad. sci. 241:148-50. 7/11/55.

Policard, Albert, André Collet & Lucette Gilttaire-Ralyte 2830  
Étude au microscope électronique de la disposition des membranes latérales dans les cellules de certains épithéliums chez les mammifères. Compt. rend. acad. sci. 241:1680-3. 12/14/55.

Policard, Albert, André Collet & Lucette Gilttaire-Ralyte 2831  
Étude au microscope électronique des cellules alvéolaires du poumon normal de mammifère. Compt. rend. acad. sci. 240:2363-5. 6/20/55.

Policard, A., A. Collet & L. Gilttaire-Ralyte 2832  
Étude au microscope électronique des réactions pulmonaires initiales aux agressions expérimentales par la silice. Presse méd. 63(86):1775-7. 1955.

Policard, Albert, André Collet & Lucette Gilttaire-Ralyte 2833  
Étude au microscope électronique des transformations de la cellule alvéolaire du poumon au cours de la formation du granulome silicotique expérimental. Compt. rend. acad. sci. 240:2473-5. 6/27/55.

Policard, Albert, André Collet & Lucette Gilttaire-Ralyte 2834  
Étude au microscope électronique de thrombi plaquettaires formés dans les capillaires pulmonaires au cours d'agressions expérimentales par des particules inframicroscopiques de silice. Bull. microscop. appl. 5(1/2):7-8. 1955.



- Policard, Albert, André Collet & Lucette  
Giltair-Ralyte 2835  
Observations au microscope électronique sur  
la structure inframicroscopique des arterioles  
des mammifères. Bull. microscop. appl. 5(1/2):  
3-4. 1955.
- Policard, A., A. Collet & L. Giltair-Ralyte  
2836  
Les réactions des cellules réticulo-histio-  
cytaires vis-a-vis de la silice. Étude au  
microscope électronique de la fibrillogénès  
dans le granulome silicotique expérimental.  
Rev. hématol. 10(1):3-18. 1/55.
- Policard, A., A. Collet & L. Giltair-Ralyte  
2837  
Recherches, au microscope électronique, sur  
la phagocytose des particules de silice. Rev.  
hématol. 10(4):674-88. 1955.
- Policard, A., A. Collet & L. Giltair-Ralyte  
2838  
Recherches au microscope électronique sur la  
structure du glomérule rénal des mammifères.  
Arch. anat. micr. 44(1):1-19. 1955.
- Policard, Albert, André Collet & Lucette  
Giltair-Ralyte 2839  
Structures péricapillaires et mésangium du  
glomérule rénal du rat observés au microscope  
électronique. Bull. microscop. appl. 5(1/2):  
5-6. 1955.
- Politycki, A. 2840  
Über den Ätzbau des Reinstaluminiums in  
Halogenwasserstoffsäuren. Metall. 8(5/6):173-  
6. 1954.
- Politycki, A. 2841  
Untersuchung galvanischer Kupferniederschläge  
mit dem Elektronenmikroskop - "Gezielte" Auf-  
nahmen. Metall. 8(13/14):526-7. 1954.
- Pollister, A. W., M. E. Gettner & R. Ward 2842  
Evidence of nucleocytoplasmic interchange in  
frog oocytes. (Abstract, Paper #H7, Electron  
Microscope Society of America Meeting, Highland  
Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:  
1463. 1954.
- Polson, Alfred & Golda Selzer 2843  
A rapid method for the purification of the  
MEF<sub>1</sub> strain of poliomyelitis virus. Biochim.  
et Biophys. Acta. 14:67-70. 1954.
- Ponder, E. 2844  
Red cell structure and its breakdown. Proto-  
plasmatologia. Handbuch der Protoplasmas-  
forschung. Vol. 10 Pt. 2. Vienna, Springer,  
1955. 123 p.
- Ponder, E., M. Bessis & J. Breton-Gorius 2845  
Observations au microscope électronique de  
l'action de différentes hémolysines sur la sur-  
face des globules rouges. Rev. hématol. 8(3):  
276-81. 1953.
- Ponder, E., M. Bessis, J. Breton-Gorius, A.  
Guinier, P. Antzenberger & D. G. Dervich-  
ian 2846  
Modifications de la surface et de l'intérieur  
des érythrocytes. Durant leur conservation en  
solution A.C.D. Rev. hématol. 9(1):123-6.  
1954.
- Ponder, E., M. Bessis, M. Bricka & J. Breton-  
Gorius 2847  
Modifications de la surface des érythrocytes

- par différentes agressions (et particulièrement  
durant l'agglutination) étudiées par microscopie  
électronique. Rev. hématol. 7(4):550-60. 1952.
- Ponder, Eric, Marcel Bessis, Michel Bricka &  
Jeannine Gorius 2848  
Nouvelles données sur le mécanisme d'agglutin-  
ation des érythrocytes. (Examen au microscope  
à contraste de phase et au microscope électron-  
ique.) Compt. rend. acad. sci. 234:2645-6.  
6/30/52.
- Pontieri, G. 2849  
Ricerche sui flagelli nelle forme pleiomorfe  
batteriche. Boll. ist. sieroterap. milan. 33  
(11/12):624-33. 1954.
- Poole, K. M. 2850  
Electrode contamination in electron optical  
systems. Proc. Phys. Soc. London. 66B:541-7.  
1953.
- Porter, K. R. 2851  
Repair processes in connective tissues. 2nd  
Conf. Connective Tissues, New York, 4/24-25/51.  
Trans.:126-58. New York, Josiah Macy, Jr. Founda-  
tion, 1952.
- Porter, Keith R. 2852  
Changes in cytoplasmic fine structure accom-  
panying mitosis in rat sarcoma cells. (Abstract,  
Paper #63, Electron Microscope Society of Amer-  
ica Meeting, Pocono Manor, Pa., 11/5-7/53.)  
J. Appl. Phys. 24:1423. 11/53.
- Porter, Keith R. 2853  
Observations on a submicroscopic basophilic  
component of cytoplasm. J. Exptl. Med. 97:  
727-50. 5/1/53.
- Porter, Keith R. 2854  
The submicroscopic structure of animal epi-  
dermis. (Abstract, Paper #68, Electron Micro-  
scope Society of America Meeting, Pocono Manor,  
Pa., 11/5-7/53.) J. Appl. Phys. 24:1424. 11/53.
- Porter, Keith R. 2855  
Cell and tissue differentiation in relation to  
growth (animals). In Dynamics of growth pro-  
cesses. Princeton, Princeton Univ. Press.  
:95-110. 1954.
- Porter, Keith R. 2856  
Electron microscopy of basophilic components  
of cytoplasm. J. Histochem. Cytochem. 2(5):  
346-73. 9/54.
- Porter, Keith R. 2857  
The myo-tendon junction in larval forms of  
Amblystoma punctatum. Anat. Record. 118:342.  
2/54.
- Porter, Keith R. 2858  
Observations on the submicroscopic structure  
of animal epidermis. Anat. Record. 118:433.  
2/54.
- Porter, Keith R. 2859  
Changes in cell fine structure accompanying  
mitosis. Symposium on Fine Structure of Cells,  
held at 8th Cong. of Cell Biology, Leyden, 1954.  
:236-49. Groningen, P. Noordhoff, 1955.
- Porter, Keith R. 2860  
The fine structure of cells. Federation Proc.  
14(3):673-82. 9/55.
- Porter, Keith R. & J. Blum 2861  
A new microtome for ultra thin sectioning and

one of its applications in electron microscopy. Anat. Record. 117:685-712. 1953. Norelco Repr. 1:55-9. 3-4/54.

Porter, Keith R. & J. Blum 2862  
A study of microtomy for electron microscopy. Anat. Record. 117(4):685-712. 12/53.

Porter, Keith R. & Frances L. Kallman 2863  
Significance of cell particulates as seen by electron microscopy. Ann. N. Y. Acad. Sci. 54: 882-91. 7/10/52.

Porter, K. R. & F. Kallman 2864  
The properties and effects of osmium tetroxide as a tissue fixative with special reference to its use for electron microscopy. Exptl. Cell Research. 4(1):127-41. 1953.

Porter, Keith R. & Igor Tamm 2865  
Direct visualization of a mucoprotein component of urine. J. Biol. Chem. 212:135-40. 1/55.

Potts, Barbara P. 2866  
Electron microscope observations on trichocysts. Biochim. et Biophys. Acta. 16:464-70. 4/55.

Potts, Barbara P. & S. G. Tomlin 2867  
The structure of cilia. Biochim. et Biophys. Acta. 16:66-74. 1955.

Powell, Allen S., Edward G. Bobalek & Louis R. LeBras 2868  
An improved replica technique for electron microscopy of paint films. (Abstract, Paper #26(A), Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1417. 11/53.

Powell, A. S., L. R. LeBras, E. G. Bobalek & W. von Fischer 2869  
An improved replica technique for electron microscopy of paint films. J. Appl. Phys. 25: 757-60. 6/54.

Powers, E. L., C. F. Ehret & L. E. Roth 2870  
Mitochondrial structure in paramecium as revealed by electron microscopy. Biol. Bull. 108(2):182-95. 4/55.

Pratt, Arnold W. & Herbert Kahler 2871  
Electron microscopy of crystalline plates in rabbit papilloma. Proc. Soc. Exptl. Biol. Med. 76:656-9. 4/51.

Pratt, A. W. & Ralph W. G. Wyckoff 2872  
The fine structure of connective tissue fibrils. Biochim. et Biophys. Acta. 5:166-74. 4/50.

Prebus, Albert F. & John W. Michener 2873  
Electron microscope investigation of glass. Industr. Engng. Chem. 46:147-53. 1/54.

Pregel, Boris 2874  
Sur la détermination de structures moléculaires des couches périphériques de produits phosphorescents. Compt. rend. acad. sci. 232:320-1. 1/22/51.

Preston, R. D. 2875  
Micelle aggregates. In The molecular architecture of plant cell walls. 85-90. London, Chapman & Hall. 1952.

Preston, R. D., E. Nicolai & B. Kuyper 2876  
Electron microscopic investigations of the walls of green algae. II. The cytoplasm-wall

relationship in freeze-dried *Valonia macrophysa*. J. Exptl. Botany. 4(10):40-3. 1953.

Preston, R. D. & G. W. Ripley 2877  
Electron diffraction diagrams of cellulose microfibrils in *Valonia*. Nature. 174:76. 7/10/54.

Preston, R. D. & G. W. Ripley 2878  
An electron-microscopic investigation of the walls of conifer cambium. J. Exptl. Botany. 5(15):410-3. 1954.

Preuss, L. E. 2879  
An investigation of the collimation mode in shadow casting. (Abstract, Paper #15, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1415. 11/53.

Preuss, L. E. 2880  
A study of the propagation mode for metallic vapors in shadow-casting by vacuum evaporation of Au<sup>198</sup> and Cr<sup>51</sup>. J. Appl. Phys. 24(11):1401-9. 11/53.

Preuss, L. E. 2881  
A study of the propagation of metallic vapors in shadow casting by vacuum evaporation of Au<sup>198</sup> and Cr<sup>51</sup>. (Abstract, Paper #22, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:114. 1953

Preuss, Luther E. & John H. L. Watson 2882  
A technique for taking motion pictures of electron microscope images. J. Appl. Phys. 21: 902-3. 9/50.

Preuss, L. E. & John H. L. Watson 2883  
A survey of X-radiation dosage from the EMU with special ionization chambers. (Abstract, Paper #A16, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1455. 1954.

Prevot, A. R., H. Thouvenot, J. Pitre & M. Bressou 2884  
Étude d'une espèce thermophile anaérobie nouvelle: *Cillobacterium thermophilum*. Ann. inst. Pasteur. 86:776. 6/54.

Price, Kenneth C., Jules M. Weiss, Daikichi Hata & John R. Smith 2885  
Experimental needle biopsy of the myocardium of dogs with particular reference to histologic study by electron microscopy. J. Exptl. Med. 101(6):687-94. 6/1/55.

Prince, Edward 2886  
The resolving power of an x-ray microscope. J. Appl. Phys. 21:698. 7/50.

Proceedings of the Electron Microscope Society of America, Washington, D. C., 10/6-8/49. J. Appl. Phys. 21:66-72. 1950. 2887

Detroit, Michigan, 9/14-6/50. 2888  
J. Appl. Phys. 22:110-16. 1951.

Philadelphia, Pennsylvania, 11/8-10/51 2889  
J. Appl. Phys. 23:156-64. 1952.

Cleveland, Ohio, 11/6-8/52. 2890  
J. Appl. Phys. 24:111-8. 1953.

Pocono Manor, Pennsylvania, 11/5-7/53. 2891  
J. Appl. Phys. 24:1414-25. 1953.

University Park, Pennsylvania, 10/27-9/55. 2892  
J. Appl. Phys. 26:1391-8. 1955.



- Protsenko, A. E. 2893  
Electroniscopic study of phytopathogenic viruses. (in Russian) Mikrobiologiya. 22: 709-13. 1953.
- Pungor, E., E. Schulek & F. Guba 2894  
Elektronenmikroskopische Untersuchungen auf dem Gebiete der Kristallbildung. Anal. Chim. Acta. 11(1):12-17. 7/54.
- Puntigam, F. & E. Orth 2895  
Über die Verwendung des Elektronenmikroskops zur Diagnose vaxzinaler Erkrankungen. Wien. Klin. Wochschr. 63(43):817-8. 1951.
- Puntigam, F. & E. Orth 2896  
Über den Nachweis des Vaccinavirus im Blut von zur Impfstoffgewinnung dienenden Jung-rindern. Z. Hyg. Infektionskrankh. 136:319-24. 3/53.
- Puntigam, F., E. Orth & G. Kubin 2897  
Über den Nachweis von Vaccinavirus in der Rückenmarksflüssigkeit von Jungrindern. Z. Hyg. Infektionskrankh. 135:225-30. 1952.
- Radavich, John & Charles Wert 2898  
Study of precipitates of C and N in iron with an electron microscope. J. Appl. Phys. 22: 367-71. 4/51.
- Radczewski, O. E. 2899  
Über den Mineralbestand des feuerfesten Schiefertons von Neurode in Schlesien. Ber. deut. keram. Ges. 28(3):119-38. 1951.
- Radczewski, O. E. 2900  
Elektronenmikroskop und thermische Analyse als Hilfsmittel zur Bestimmung der Tonminerale in Böden. Z. Pflanzenernähr Düng-u. Bodenk. 57(1):66-9. 1952.
- Radczewski, O. E. 2901  
Über elektronenoptische Untersuchungen am Nontronit. Fortschr. Mineral. 31:59-60. 1952.
- Radczewski, O. E. 2902  
Elektronenoptische Untersuchungen von Umwandlungsreaktionen der Tonminerale. Tonind. Ztg. u. Keram. Rundschau. 77:291-6. 1953.
- Radczewski, O. E. 2903  
Études au microscope électronique d'une argile schisteuse de neurod. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :512-6. Paris, Ed. Rev. Optique, 1953.
- Radczewski, O. E. 2904  
Über die Bestimmung von Mineralen mittels Beugung im Elektronenmikroskop. Optik., 10: 163-9. 1953.
- Raether, Heinz 2905  
L'application de la diffraction électronique à l'étude des cristaux uniques d'alliage. Compt. rend. acad. sci. 231:653-5. 10/2/50.
- Raether, H. 2906  
Étude par diffraction électronique de l'oxydation de surfaces de zinc, préparées par clivage ou par vaporisation. J. phys. rad. 11:11-19. 1/50.
- Raether, Heinz 2907  
Über die Struktur mechanisch und elektrolytisch polierter Oberflächen. Mikroskopie. 5:101-16. 1950.
- Raether, H. 2908

- Zur Struktur einer Metalloberfläche (nach Untersuchungen mit Elektronenstrahlen). Feinwerktechnik. 57(5):1-6. 1953.
- Raettig, Hansjürgen 2909  
Erfahrungen bei der elektronenoptischen Darstellung von Bakteriophagen mit dem Filmbewuchungsverfahren. Z. wiss. Mikroskop. 61:280-9. 3/53.
- Raettig, H. 2910  
Elektronenmikroskopische Darstellung von Bakterien-Kleinformen der Enterobacteriaceen. Z. wiss. Mikroskop. 62(2):92-105. 12/54.
- Raettig, Hansjürgen 2911  
Experimentelle Untersuchungen über Entwicklungsvorgänge bei Bakteriophagen. Zentr. Bakterirol. Parasitenk. Abt. I Orig. 161:11-38. 1954.
- Raettig, Hansjürgen 2912  
Die morphologische Wechselwirkung zwischen Phagen und Bakterien und die Lysome als neues Formelement. Zentr. Bakterirol. Parasitenk. Abt. I. Orig. 161(4/5):260-8. 1954.
- Raettig, Hansjürgen & Aletta Buse 2913  
Elektronenoptisch nachweisbare Formveränderungen von H. influenzae unter Penicillineinwirkung. Zentr. Bakterirol. Parasitenk. Abt. I Orig. 164: 458-65. 1955.
- Raettig, Hansjürgen & Gustava Schnauder 2914  
Vergleichende Grossenbestimmung der Normal- und Kleinformen der Enterobacteriaceen. Z. Hyg. Infektionskrankh. 139:18-26. 1954.
- Ragetli, H. W. J., Christina van der Scheer & J. P. H. van der Want 2915  
Electromicroscopy of fractions obtained by paper chromatography from juices of virus diseased and healthy plants. (in Dutch) Tijdschr. Plantenziekten. 61:35-46. 1955.
- Rake, Geoffrey & Harvey Blank 2916  
The structure of viral inclusions. Studies with the electron microscope. (Abstract) 5th Int. Cong. Microbiol., Rio de Janeiro, 1950. Abstracts of papers. :29.
- Ramanathan, N., J. Sikorski & H. J. Woods 2917  
Electron microscope studies of the surface structure of wool and other fibres. Biochim. et Biophys. Acta. 18:323-40. 1955.
- Rånby, Bengt G. 2918  
Fibrous macromolecular systems: cellulose and muscle. The colloidal properties of cellulose micelles. Discussions Faraday Soc. 11:158-64. 1951.
- Rånby, Bengt G. 2919  
Fine structure and reactions of native cellulose. Inaugural doctoral dissertation, University of Uppsala, 4/19/52. 22 p.
- Rånby, Bengt G. 2920  
The physical characteristics of alpha-, beta- and gamma-cellulose. Svensk Papperstidn. 55: 115-24. 4/52.
- Rånby, Bengt G. 2921  
Physico-chemical investigations on animal cellulose (Tunicin). Arkiv Kemi. 4(13):241-8. 1952.

- Rånby, Bengt 2922  
Physico-chemical investigations on bacterial cellulose. Arkiv Kemi. 4(14):249-55. 1952.
- Rånby, B. G. 2923  
Structure fine, cristallinité et réactions de la cellulose. Assoc. tech. ind. papetiere, Bull. 6:67-89. 1952.
- Rånby, B. G. 2924  
Recent studies on the morphology of cellulose fibers and their significance for fiber to resin bonding. Tappi. 36(6):8A-14A. 1953.
- Rånby, Bengt G. 2925  
Über die Feinstruktur der nativen Cellulosefasern. Makromol. Chem. 13:40-52. 1954.
- Rånby, B. G. & Ed. Ribi 2926  
Über den Feinbau der Zellulose. Experientia. 6:12-5. 1/50.
- Randall, J. T. 2927  
Microscopical apparatus - instrument design and technique. Discussions Faraday Soc. 9: 353-60. 1950.
- Randall, J. T. 2928  
Observations on the collagen system. J. Soc. Leather Trades Chemists. 38:362-87. 1954.
- Randall, J. T. 2929  
Observations on the collagen system. Nature. 174:853. 11/6/54.
- Randall, J. T., G. L. Brown, S. Fitton Jackson, F. C. Kelly, A. C. T. North, W. E. Seeds & G. R. Wilkinson 2930  
Some physical and chemical properties of extracted skin collagen. In Nature and structure of collagen. Ed. by J. T. Randall. :213-31. New York, Academic Press, 1953.
- Randall, J. T., R. D. B. Fraser, S. Jackson, A. V. W. Martin & A. C. T. North 2931  
Aspects of collagen structure. Nature. 169: 1033. 6/21/52.
- Randall, J. T. & M. H. G. Friedlaender 2932  
The microstructure of ram spermatozoa. Exptl. Cell Research. 1:1-32. 1/50.
- Rang, O. 2933  
Zur Frage der Objektbelastung im Elektronenmikroskop. Optik. 9:19-32. 1952.
- Rang, Otto 2934  
Fern-Interferenzen von Elektronenwellen. Z. Physik. 136:465-79. 1953.
- Rang, O. 2935  
Formbestimmung dünner Einkristall-Lamellen mit Hilfe der durch Kristallgitter-Reflexe hervorgerufenen Scheinstrukturen. Optik. 10: 90-106. 1953.
- Rang, O. 2936  
Elektronen-Interferometrie. Physik. Bl. 10(10):452-60. 1954.
- Rang, Otto 2937  
Interferenzversuch mit Elektronen. Umschau Wiss. u. Tech. 54:619-23. 1954.
- Rang, O. 2938  
Zur Justierung elektronenoptischer Filterlinsen. Optik. 11:327-34. 1954.
- Rang, Otto & Fritz Schleich 2939

- Elektronenmikroskopische Dunkelfeld-Abbildung als Mittel zur Identifizierung kleiner Kristalle. Z. Physik. 136:547-55. 1954.
- Rang, Otto & Hans Schluge 2940  
Aufbau des AEG-ZEISS-Elektronenmikroskops EM 8. II. AEG-Mitt. 41:285-8. 11-12/51.
- Rang, O. & H. Schluge 2941  
Dunkelfeld-Mikroskopie mit definierten Gitter-Reflexen. Optik. 9:463-72. 1952.
- Rao, M. R. A. 2942  
Electron microscopic studies on aqueous sols. Proc. Phys. Soc. 63B:980-1. 12/50.
- Rathenau, G. W. & G. Baas 2943  
Croissance des grains observée par microscopie électronique à émission. Métaux, Corrosion Inds. 29:139-50. 1954.
- Ratzenhofer, M. & A. Propst 2944  
Elektronenmikroskopische Untersuchungen der tuberkulösen Nekrose beim Menschen. Mikroskopie. 8(7/8):226-34. 1953.
- Ray, B. Ghosh & R. H. A. Swain 2945  
An investigation of the mumps virus by electron microscopy. J. Pathol. Bacteriol. 67:247-52. 1/54.
- Ray, H. N., N. N. Das Gupta, M. L. De & A. Guha 2946  
A new structure observed in Trypanosoma evansi (Indian strain). Nature. 175:392. 2/26/55.
- Read, Harold J. & Rolf Weil 2947  
Korngrösse und Härte von Nickelniederschlägen in Beziehung zum Glanz. Metalloberfläch. 5(7): 97-101. 1951.
- Reagan, Reginald L. 2948  
Studies by electron microscopy of five Newcastle disease virus strains. Poultry Sci. 30: 449-51. 5/51.
- Reagan, Reginald L. & A. L. Brueckner 2949  
Electron micrographs of negri bodies found in rabies. J. Infectious Diseases. 87:213-6. 11-12/50.
- Reagan, Reginald L. & A. L. Brueckner 2950  
Morphological observations by electron microscopy of the viruses of infectious bronchitis of chickens and the chronic respiratory disease of turkeys. Cornell Vet. 40(4):384-6. 10/50.
- Reagan, Reginald L. & A. L. Brueckner 2951  
Electron micrographs of Newcastle disease virus preparations from chick embryos following infection by virus propagated in the short-tailed shrew. (Blarina brevicauda). Proc. Soc. Exptl. Biol. Med. 78:497-9. 1951.
- Reagan, Reginald L. & A. L. Brueckner 2952  
Morphologic observations by electron microscopy of the monkey-adapted Newcastle disease virus after culture in chicken embryos. Am. J. Vet. Research. 12:55-7. 1/51.
- Reagan, Reginald L. & A. L. Brueckner 2953  
Morphological studies by electron microscopy of the canine distemper virus. Cornell Vet. 41: 141-4. 4/51.
- Reagan, R. L. & A. L. Brueckner 2954  
Morphological observations by electron microscopy of West Nile virus after propagation in the



REAGAN  
#2955

- Swiss mouse. Proc. Soc. Exptl. Biol. Med. 78: 630-1. 1951.
- Reagan, Reginald L. & A. L. Brueckner 2955  
Studies by electron microscopy of five Newcastle disease virus strains. Poultry Sci. 30(3):449-51. 5/51.
- Reagan, Reginald L. & A. L. Brueckner 2956  
Electron microscope studies of four strains of infectious bronchitis virus. Am. J. Vet. Research. 13:417-8. 7/52.
- Reagan, R. L. & A. L. Brueckner 2957  
Electron microscope studies of Newcastle disease virus. I. Growth of hamster-modified virus in intracerebrally injected hamsters. Poultry Sci. 31:39-41. 1/52.
- Reagan, R. L. & A. L. Brueckner 2958  
Electron microscope studies of red blood corpuscles of hamsters infected with Newcastle disease virus (NDV). Poultry Sci. 31:544-50. 5/52.
- Reagan, Reginald L. & A. L. Brueckner 2959  
Morphological observations by electron microscopy of the Lansing strain of poliomyelitis virus after propagation in the Swiss albino mouse. Texas Repts. Biol. and Med. 10(2):425-8. 1952.
- Reagan, Reginald L. and A. L. Brueckner 2960  
Studies of dengue fever virus by electron microscopy. J. Bacteriol. 64(2):233-5. 8/52.
- Reagan, Reginald L. & A. L. Brueckner 2961  
Comparison by electron microscopy of the Ntaya and Zika viruses. Texas Repts. Biol. and Med. 11(2):347-51. 1953.
- Reagan, Reginald L. & A. L. Brueckner 2962  
Electron micrographs of erythrocytes from Swiss albino mice infected with Semliki Forest virus. Trans. Am. Microscop. Soc. 72(4):345-9. 10/53.
- Reagan, Reginald L. & A. L. Brueckner 2963  
Electron microscopy of yellow fever virus (17D strain). Am. J. Pathol. 29(6):1157-9. 1953.
- Reagan, Reginald L. & A. L. Brueckner 2964  
Morphologic observations by electron microscopy of Semliki Forest virus after propagation in the Swiss mouse. Am. J. Pathol. 29:773-7. 4/53.
- Reagan, Reginald L. & A. L. Brueckner 2965  
Electron micrographs of erythrocytes from young dogs injected with rabies virus by rectal instillation: a preliminary report. Vet. Med. 49:339. 8/54.
- Reagan, Reginald L. and Arthur L. Brueckner 2966  
Morphological observations by electron microscopy of Bwamba fever virus after propagation in the Swiss mouse. Am. J. Vet. Research. 15: 164-5. 1/54.
- Reagan, Reginald L., A. L. Brueckner & Leo J. Poelma 2967  
Morphologic studies of hog cholera virus by electron microscopy. Am. J. Vet. Research. 12(48):116-7. 4/51.
- Reagan, Reginald L., Sing Chang & Arthur L. Brueckner 2968

REAGAN  
#2980

- Studies by electron microscopy of a fixed (Pasteur) rabies virus, a street rabies virus and the egg adapted Flury strain of rabies. Texas Repts. Biol. and Med. 13(2):356-61. 1955.
- Reagan, R. L., Sing Chang, Mary Geumlek & A. L. Brueckner 2969  
Electron microscopic studies of erythrocytes from hamsters infected rectally with the Mahoney (Brunhilde II) strain of poliomyelitis virus. Southwestern Vet. 8(3):242-4. 1955.
- Reagan, Reginald L., Sing Chang, Sylvan E. Moolten, Ellen Clark & Arthur L. Brueckner 2970  
Electron microscopic studies of the Roseola infantum (exanthem subitum) virus. Texas Repts. Biol. and Med. 13(4):929-33. 1955.
- Reagan, Reginald L., William C. Day & A. L. Brueckner 2971  
Electron micrographs of erythrocytes from Swiss albino mice infected with herpes simplex virus (strain P38). Am. J. Pathol. 29:767-71. 4/53.
- Reagan, R. L., W. C. Day & A. L. Brueckner 2972  
Electron microscopy studies of four strains of chronic respiratory agents. Poultry Sci. 32(6):960-5. 11/53.
- Reagan, Reginald L., William C. Day, Marilyn P. Harmon & A. L. Brueckner 2973  
Electron micrographs of erythrocytes from cotton rats infected with the Lansing strain of poliomyelitis virus. Am. J. Pathol. 29:175-83. 1-2/53.
- Reagan, R. L., W. C. Day, Marilyn P. Harmon & A. L. Brueckner 2974  
Electron microscopic study of the virus of rabies. Am. J. Vet. Research. 14(50):111-2. 1/53.
- Reagan, Reginald L., William C. Day, Suzanne Moore & A. L. Brueckner 2975  
Electron microscopic studies of the virus of varicella (chicken pox) from monkey serum. Texas Repts. Biol. and Med. 11:74-8. Spring, 1953.
- Reagan, R. L., W. C. Day, Suzanne Moore & A. L. Brueckner 2976  
Morphological observations by electron microscopy of the vole rickettsia. Trans. Am. Microscop. Soc. 72(2):185-8. 4/53.
- Reagan, R. L., E. C. Delaha & A. L. Brueckner 2977  
Electron micrographs of Negri bodies found in rabies. Texas Repts. Biol. and Med. 13(1): 157-61. 1955.
- Reagan, Reginald L., Edward C. Delaha, Sue R. Cook & A. L. Brueckner 2978  
Electron microscopy of erythrocytes from young chickens experimentally infected with the Lansing strain of poliomyelitis. Texas Repts. Biol. and Med. 13(1):149-56. 1955.
- Reagan, Reginald L., Edward C. Delaha, Sue R. Cook & Arthur L. Brueckner 2979  
Electron microscopy of erythrocytes from young hamsters infected with rabies virus by rectal instillation. Trans. Am. Microscop. Soc. 74: 68-73. 1/55.
- Reagan, Reginald L., Edward C. Delaha, Sue R. Cook & Arthur L. Brueckner 2980

Studies by electron microscopy of Newcastle disease virus after propagation in young cats. Vet. Med. 50(1):34-5. 1955.

Reagan, Reginald L., Edward Delaha, Sue Cook, Arthur Brueckner, James Porter & Irwin Moulthrop 2981  
Electron microscopic studies of laryngo-tracheitis virus. Am. J. Vet. Research. 16: 147-8. 1955.

Reagan, Reginald L., Edward C. Delaha, Mildred T. Stewart & A. L. Brueckner 2982  
Electron micrographs of erythrocytes from Swiss albino mice infected with the Aujeszky strain of pseudorabies virus. Am. J. Vet. Research. 15(54):166-70. 1/54.

Reagan, Reginald L., Edward C. Delaha, Mildred T. Stewart & A. L. Brueckner 2983  
Electron micrographs of erythrocytes from young rabbits infected with the Wyoming strain of the infectious anemia (swamp fever) virus. Trans. Am. Microscop. Soc. 73(3):263-71. 7/54.

Reagan, Reginald L., Edward C. Delaha, Mildred T. Stewart & A. L. Brueckner 2984  
Electron microscopic studies of the Bivins papilloma virus. Am. J. Vet. Research. 15(55): 323-4. 4/54.

Reagan, Reginald L., Edward C. Delaha, Mildred T. Stewart & A. L. Brueckner 2985  
Morphological observations by electron microscopy of the Wyeomyia fever virus after propagation in the Swiss mouse. Trans. Am. Microscop. Soc. 73(3):261-3. 7/54.

Reagan, Reginald L., Mary Geumlek, Sing Chang & A. L. Brueckner 2986  
Studies of erythrocytes by the electron microscope. Trans. Am. Microscop. Soc. 74 (2):177-80. 4/55. Trans. Am. Microscop. Soc. 74(3):252-5; 261. 7/55. Texas Repts. Biol. and Med. 13:470-4. 1955.

Reagan, Reginald L., Marilyn P. Harmon, William C. Day & A. L. Brueckner 2987  
Electron microscope studies of the virus of measles (morbilli). Texas Repts. Biol. and Med. 10:655-9. 1952.

Reagan, Reginald L., Jean W. Hickman & A. L. Brueckner 2988  
Electron micrographs of the mouse-adapted Newcastle disease virus. Am. J. Vet. Research. 11:231-2. 4/50.

Reagan, Reginald L., Jean W. Hickman & A. L. Brueckner 2989  
Morphological observations by electron microscopy of Newcastle virus in the spinal cord of hamsters infected by various routes. Cornell Vet. 40(4):392-7. 10/50.

Reagan, R. L., Mary G. Lillie, Jean W. Hickman & A. L. Brueckner 2990  
Studies of the virus of equine infectious anemia. Am. J. Vet. Research. 11(39):157-8. 4/50.

Reagan, Reginald L., Eddy D. Palmer, Edward C. Delaha & A. L. Brueckner 2991  
Study by electron microscopy of erythrocytes from a patient affected with sarcoidosis. Texas Repts. Biol. and Med. 13(2):350-5. 1955.

Reagan, Reginald L., Eddy D. Palmer, Edward C. Delaha, Sue R. Cook, Arthur L. Brueckner & Helen E. Nelson 2992  
Electron microscopic studies of an egg-adapted virus isolated from a patient with a common cold. Texas Repts. Biol. and Med. 12(4):1067-73. 1954.

Reagan, Reginald L., Eddy D. Palmer, Edward C. Delaha, Mildred T. Stewart & A. L. Brueckner 2993  
Electron microscopic studies of erythrocytes from a patient affected with Hodgkin's disease. Texas Repts. Biol. and Med. 12(1):178-81. 1954.

Reagan, Reginald L., Eddy D. Palmer, Edward C. Delaha, Mildred T. Stewart & A. L. Brueckner 2994  
An unknown virus-like agent isolated from a patient affected with Hodgkin's disease. Texas Repts. Biol. and Med. 12(4):1061-6. 1954.

Reagan, Reginald L., Eddy D. Palmer, Mildred T. Stewart & Arthur L. Brueckner 2995  
Electron microscopic studies of a virus isolated from a patient with a common cold. Texas Repts. Biol. and Med. 12(1):174-7. 1954.

Reagan, R. L., J. E. Porter, E. C. Delaha, S. R. Cook & A. L. Brueckner 2996  
Electron microscopy of erythrocytes from chickens affected with chronic respiratory disease. Poultry Sci. 34:103-6. 1955.

Reagan, R. L., S. H. Qureshi & A. L. Brueckner 2997  
Electron micrographs of Newcastle disease virus propagated in the green turtle (Pseudemys elegans). Vet. Med. 48:493-4. 12/53.

Reagan, Reginald L., Frances M. Sansone, Suzanne Moore & Arthur L. Brueckner 2998  
Electron microscopic studies of herpes simplex virus after propagation in the Swiss albino mouse. Texas Repts. Biol. and Med. 11:79-82. 1953.

Reagan, Reginald L., Dorothy M. Schenck & A. L. Brueckner 2999  
Morphological observations by electron microscopy of the Brunhilde strain of poliomyelitis virus. J. Infectious Diseases. 86:295-6. 5-6/50.

Reagan, Reginald L., Dorothy M. Schenck & A. L. Brueckner 3000  
Morphologic observations by electron microscopy of the Leon strain of poliomyelitis virus. Proc. Soc. Exptl. Biol. Med. 77:42-3. 5/51.

Reagan, Reginald L., D. M. Schenck & A. L. Brueckner 3001  
Electron micrographs of Newcastle disease virus propagated in the cotton rat. (Sigmodon hispidus). Am. J. Vet. Research. 13(49):575-6. 10/52.

Reagan, R. L., D. M. Schenck & A. L. Brueckner 3002  
Electron microscope studies of Newcastle disease virus. 2. Growth of embryo-propagated virus in embryonated chicken eggs. Poultry Sci. 31: 42-8. 1/52.

Reagan, Reginald L., D. M. Schenck, M. P. Harmon & A. L. Brueckner 3003  
Morphological observations by electron microscopy of "B" virus after propagation in the rabbit. Cornell Vet. 42(3):328-30. 7/52.



Reagan, R. L., D. M. Schenck, M. P. Harmon  
& A. L. Brueckner 3004  
Morphological observations by electron micro-  
scopy of pseudorabies virus (Aujeszky strain)  
after propagation in the rabbit. *Am. J. Vet.*  
*Research.* 13(49):577-8. 10/52.

Reagan, Reginald L., Elizabeth J. Smith &  
A. L. Brueckner 3005  
Electron micrographs of Newcastle disease  
virus propagated in the cave bat (*Myotis*  
*lucifugus*). *J. Bacteriol.* 61:37-40. 1/51.

Reagan, Reginald L., Ninalee Strand & A. L.  
Brueckner 3006  
Comparison by electron microscopy of ano-  
pheles "A" and anopheles "B" viruses. *Texas*  
*Repts. Biol. and Med.* 11(3):508-11. 1953.

Reagan, Reginald L., Ninalee Strand & A. L.  
Brueckner 3007  
Electron microscopic studies of the virus  
of German measles (rubella). *Texas Repts.*  
*Biol. and Med.* 11(3):502-7. 1953.

Reagan, Reginald L., Ninalee Strand & A. L.  
Brueckner 3008  
Comparison by electron microscopy of Bun-  
yamwera, Uganda S, and Ilheus viruses. *Trans.*  
*Am. Microscop. Soc.* 73(1):67-9. 1954.

Rebstock, H. and K. Seiler 3009  
Höchstfrequenzleitfähigkeit von hexagonalem  
Selen. *Z. Naturforsch.* 9a(1):49-55. 1954.

Rebuck, John W. 3010  
Erythrocytic antigenic loci in relation to  
erythrocytic structures with their electron  
micrography. (Abstract) *Anat. Record.* 112:  
379. 2/52.

Rebuck, John W. 3011  
Ultrastructure of leukocytic granules and  
their electron microscopy. *Papers Mich. Acad.*  
*Sci.* 36:317-22. 1950. (Pub. 1952)

Rebuck, John W. 3012  
Structural changes in sensitized human  
erythrocytes observed with the electron micro-  
scope. *Anat. Record.* 115:591-613. 4/53.

Rebuck, John W., R. W. Monto & R. M.  
Sturrock 3013  
The structural basis of sickling and its  
electron microscopy. *Federation Proc.* 9:340.  
1950. *Am. J. Pathol.* 28(3):530. 1952.

Rebuck, John W., Ruth M. Sturrock & Raymond  
mond W. Monto 3014  
Electron microscopy of the sickling process.  
*Henry Ford Hosp. Med. Bull.* 1:29-32. 12/53.

Rebuck, J. W., R. M. Sturrock & R. W.  
Monto 3015  
Sequential electron micrography of sickling.  
*Lab. Invest.* 4(3):175-89. 5-6/55.

Reed, R., R. N. Tattersall & A. Millard 3016  
An electron microscope study of senile pur-  
pura. *Conf. of Electron Micros., Delft, 7/49.*  
*Proc. The Hague, Nijhoff, 1950.* :131-4.

Regenstreif, Édouard 3017  
Expression simple de la distance focale et  
de l'aberration chromatique pour une famille  
étendue de lentilles électrostatiques. *Compt.*  
*rend. acad. sci.* 230:630-2. 2/13/50.

Regenstreif, Édouard 3018

Représentation synthétique des propriétés  
d'une famille de lentilles et de miroirs  
électrostatiques. *Compt. rend. acad. sci.*  
230:734-5. 2/20/50.

Reger, James F. 3019  
Electron microscopy of the motor end-plate in  
rat intercostal muscle. *Anat. Record.* 118:275.  
1954. *Anat. Record.* 122(1):1-16. 5/55.

Reger, James F. & H. W. Beams 3020  
Electron micrographs of the pellicle of a  
species of *Euglena*. *Proc. Iowa Acad. Sci.* 61:  
593-7. 1954.

Reichling, W. & W. Schwarz 3021  
Elektronenmikroskopische Befunde an Glaukom-  
glaskörpern. *Ber. 58 Zus. Deutschen Ophthalmo-*  
*logischen Ges., Heidelberg, 1953.* :322-6.

Reid, R. T. W. 3022  
Observations on the structure of the renal  
glomerulus of the mouse revealed by the electron  
microscope. *Australian J. Exptl. Biol. Med.*  
*Sci.* 32:235-9. 1954.

Reis, T. 3023  
Electron microscope research in the oil  
industry. *Conf. of Electron Micros., Delft, 7/49.*  
*Proc. The Hague, Nijhoff, 1950.* :179-82.

Reis, Thomas 3024  
Quelques applications chimiques du microscope  
électronique. *Microscopie.* 2(4):169-90. 12/50.

Reis, T. 3025  
The structure of coronene and its modification  
during the observation in the electron micro-  
scope. *Conf. of Electron Micros., Delft, 7/49.*  
*Proc. The Hague, Nijhoff, 1950.* :183-5.

Reis, Th., M. Pruvot & J. Buzon 3026  
Observation de quelques argiles au microscope  
électronique. 1st Int. Cong. Electron Micros.,  
Paris, 9/50. *Proc.* :517-27. Paris, Ed. Rev.  
Optique, 1953.

Reisman, Arnold & Alvin D. Delman 3027  
Replication methods for the investigation of  
ozone surface effects on elastomer compounds.  
Joint Army-Navy-Air Force Elastomer Research and  
Development Conference. Washington, Quarter-  
master General, 1954. :87-91.

Reisner, John H. 3028  
Permanent magnet lenses. (Abstract, Paper #7,  
Electron Microscope Society of America Meeting,  
Washington, D. C., 10/6-8/49). *J. Appl. Phys.*  
21:67. 1950.

Reisner, John H. 3029  
Permanent magnet lenses. *J. Appl. Phys.* 22:  
561-5. 5/51.

Reisner, John H. 3030  
Electrostatic compensation of magnetic elec-  
tron lenses. (Abstract, Paper #4, Electron  
Microscope Society of America Meeting, Pocono  
Manor, Pa., 11/5-7/53). *J. Appl. Phys.* 24:  
1414. 11/53.

Reisner, J. H. 3031  
The optical system of the RCA EMU-3A electron  
microscope. (Abstract, Paper #A2, Electron  
Microscope Society of America Meeting, Highland  
Park, Ill., 10/14-6/54.) *J. Appl. Phys.* 25:  
1453. 1954.

Reisner, John H. & Edmund G. Dornfeld 3032

A small electron microscope. J. Appl. Phys. 21:1131-9. 11/50.

Reisner, John H. & Edmund G. Dornfeld 3033  
A small electron microscope. (Abstract, Paper #8, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/49). J. Appl. Phys. 22:111. 1951.

Reisner, J. H. & E. G. Dornfeld 3034  
Evacuating plates and films for use in electron microscopy. (Abstract, Paper #3, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:112. 1953.

Reisner, J. H., R. G. Picard & E. G. Dornfeld 3035  
A new 100-Kilovolt electron microscope. (Abstract, Paper #11, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:111. 1951.

Reisner, John H. & S. M. Zollers 3036  
Permanent magnet electron microscope. Electronics. 24:86-91. 1/51.

Reissig, Magdalena & Joseph L. Melnick 3037  
Intracellular development of herpes-B virus. (Abstract, Paper #F7, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1462. 1954.

Reissig, Magdalena & Joseph L. Melnick 3038  
The cellular changes produced in tissue cultures by herpes B virus correlated with the concurrent multiplication of the virus. J. Exptl. Med. 101(3):341-51. 3/1/55.

Revell, R. S. M. & A. W. Agar 3039  
Focusing in electron microscopy. J. Sci. Instr. 27:337. 12/50.

Revell, R. S. M., A. W. Agar & J. Oh. Tobin 3040  
Studies of haemoglobin molecules with the electron microscope. Conf. of Electron Micros., Delft, 7/49. Proc. The Hague, Nijhoff, 1950. :138-40.

Revell, R. S. M. & A. W. Agar 3041  
The preparation of uniform plastic films. Brit. J. Appl. Phys. 6:23-5. 1/55.

Rey, Louis-René 3042  
Recherches sur les propriétés physiques de l'acide désoxyribonucléique traité par le chlorure de choline. J. chim. phys. 51(3): 85-100. 1954.

Rheinfurth, M. 3043  
Über den Farbfehler und den Öffnungsfehler elektronenoptischer Zylinderlinsen. Optik. 12:411-6. 1955.

Rhian, Morris, Alfred S. Evans & Joseph L. Melnick 3044  
The interaction of influenza virus and intact human erythrocytes observed by replica technique in the electron microscope. J. Immunol. 67:513-21. 12/51.

Rhoades, Harry E. 3045  
The illustration of the morphology of *Vibrio fetus* by electron microscopy. Am. J. Vet. Research. 15(57):630-3. 10/54.

Rhoads, Harry U., P. J. Bryant & A. H. Weber 3046

Structure of evaporated bismuth films as a function of thickness. (Abstract, Paper #27, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1417. 11/53.

Rhoads, H. U. & A. H. Weber 3047  
A technique for a profile study of evaporated metallic films. (Abstract, Paper #2, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26:1391. 1955.

Rhodin, Johannes 3048  
Correlation of ultrastructural organization and function in normal and experimentally changed proximal convoluted tubule cells of the mouse kidney. Stockholm, Dept. of Anatomy, Karolinska Institutet, 1954. 76 p.

Rhodin, J. 3049  
Electron microscopy of the glomerular capillary wall. Exptl. Cell Research. 8:572-4. 1955.

Rhodin, J. & T. Dalhamn 3050  
The ultrastructure of the epithelial cells in the trachea of the albino rat. (Abstract, Paper #H5, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1463. 1954.

Rhodin, J. & T. Dalhamn 3051  
Electron microscopy of collagen and elastin in lamina propria of the tracheal mucosa of rat. Exptl. Cell Research. 9:371-5. 1955.

Ribi, E. 3052  
Electron microscopic investigation of the cell wall organization of wood. Exptl. Cell Research. 5:161-72. 9/53.

Ribi, Edgar & Annalisa Norling 3053  
Elektronenmikroskopische und röntgenographische Studien an Superpolyamidfäden. Beziehungen zwischen dem Feinbau der Superpolyamidfäden und dem der Viscoseseide. Arkiv Kemi. 7(46):417-26. 1954.

Ribi, E. & B. G. Ranby 3054  
Zur elektronenmikroskopischen Präparation von Kolloiden. Experientia. 6:27-8. 1/50.

Ribi, E. & C. Shepard 3055  
Morphology of *Bacterium tularense* during its growth cycle in liquid medium as revealed by the electron microscope. Exptl. Cell Research. 8:474-87. 1955.

Rice, Robert V., Paul Kaesberg & Mark A. Stahmann 3056  
The breaking of tobacco mosaic virus using a new freeze drying method. Biochim. et Biophys. Acta. 11:337-43. 1953.

Rice, Robert V., P. Kaesberg & M. A. Stahman 3057  
Freeze-drying for electron microscopy. Arch. Biochem. Biophys. 59(2):332-40. 12/55.

Rich, Arnold P., Guy A. Voisin & Frederik B. Bang 3058  
Electron microscopic studies of the alteration of collagen fibrils in the Arthus phenomenon. Bull. Johns Hopkins Hosp. 92:222-43. 3/53.

Richard, Oscar W. 3059  
Microtome knife sharpness. Rev. Sci. Instr. 21:670-1. 8/50.



RICHARD  
#3060

- Richard, W. R. & P. A. S. Smith 3060  
The structure of polymer-plasticizer gels as shown by the electron microscope. *J. Chem. Phys.* 18:230-1. 2/50.
- Richards, A. G. 3061  
An empirical survey of inorganic compounds useful as stains. (Abstract, Paper #17, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) *J. Appl. Phys.* 23:158-9. 1/52.
- Richards, A. Glenn 3062  
Studies on arthropod cuticle. VIII. The antennal cuticle of honeybees, with particular reference to the sense plates. *Biol. Bull.* 103(2):201-25. 1952.
- Richards, A. Glenn & Frances H. Korda 3063  
Studies on arthropod cuticle. IV. An electron microscope survey of the intima of arthropod tracheae. *Ann. Entomol. Soc. Amer.* 43(1):49-71. 3/50.
- Richter, Harry 3064  
Weiterer Betrag zur Aetiologie der Lympho-granulomatose. *Deut. Med. J.* 4(7/8):145-9. 4/53.
- Richter, H. & G. Breitling 3065  
Das amorphe Arsen. *Z. Naturforsch.* 6a(11): 721-41. 1951.
- Ries, Herman E. Jr. & Wayne A. Kimball 3066  
Monolayer structure as revealed by electron microscopy. *J. Phys. Chem.* 59:94-5. 1955.
- Rimsky, A., A. Oberlin & P. F. Ceccaldi 3067  
Le diagnostic cristallographique des silico-pulmonaires. *Bull. soc. franç. minéral et crist.* 78:418-24. 1955.
- Rinehart, James F. 3068  
Electron microscopic studies of sectioned white blood cells and platelets, with observations on the derivation of specific granules from mitochondria. *Am. J. Clin. Pathol.* 25: 605-19. 6/55.
- Rinehart, James F. 3069  
Fine structure of renal glomerulus as revealed by electron microscopy. *Am. Med. Assoc. Arch. Pathol.* 59:439-48. 4/55.
- Rinehart, James F. & Marilyn G. Farquhar 3070  
Electron microscopic studies of the anterior pituitary gland. *J. Histochem. Cytochem.* 1(2):93-113. 3/53.
- Rinehart, James F. & Marilyn Gist Farquhar 3071  
Functional implications of the fine structure of the renal glomerulus. (Abstract, Paper #H6, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) *J. Appl. Phys.* 25:1463. 1954.
- Rinehart, James F. & Marilyn Gist Farquhar 3072  
The fine vascular organization of the anterior pituitary gland. An electron microscopic study with histochemical correlations. *Anat. Record.* 121(2):207-40. 2/55.
- Rinehart, James F., Marilyn G. Farquhar, Haw Chan Jung & Suleiman K. Abul-Haj 3073  
The normal glomerulus and its basic reactions in disease. *Am. J. Pathol.* 29(1):21-31. 1953.
- Rinkel, Max & Henry R. Viets 3074

ROBERTSON  
#3088

- The electron microscope. *J. Hist. Med.* 6:406-8. 1951.
- Rinker, J. N. & H. Koffler 3075  
Preliminary evidence that bacterial flagella are not "polysaccharide twirls." *J. Bacteriol.* 61:421-31. 4/51.
- Ris, Hans 3076  
The submicroscopic structure of chromosomes. *Genetics.* 37(5):619. 1952.
- Ris, Hans 3077  
A cytological congress. *Science.* 121:350-3. 3/11/55.
- Robbins, William C., Robert F. Watson, George D. Pappas & Keith R. Porter 3078  
Some effects of anti-collagen serum on collagen formation in tissue culture: a preliminary report. *J. Biophys. Biochem. Cytol.* 1(4):381-4. 7/25/55.
- Robb-Smith, A. H. T. 3079  
The nature of reticulins. 3rd Conf. of Connective Tissues, New York, 4/24-25/50. *Trans.* : 92-116. New York, Josiah Macy, Jr. Foundation, 1952.
- Robert, Louis, Charles Alexanian & Jacques Buzon 3080  
Study of solid paraffins by means of physical methods. 3rd World Petroleum Cong. The Hague, 1951. *Proc.* 6:259-78.
- Robert, L., J. Bussot & J. Buzon 3081  
Utilisation de films de graphite en microscopie électronique. 1st Int. Cong. Electron Micros., Paris, 9/50. *Proc.* :528-31. Paris, Ed. Rev. Optique, 1953.
- Robert, L. & J. Buzon 3082  
Examen d'une ozocerite au microscope électronique. 1st Int. Cong. Electron Micros., Paris, 9/50. *Proc.* :532-5. Paris, Ed. Rev. Optique, 1953.
- Robert, L. & M. Grenon 3083  
Examen au microscope électronique de la formation des fibres de savons métalliques dans les liquides organiques. Rapport Européen Congrès Toeg. Em., Gent, 4/10/54. :273-9.
- Robertson, J. David 3084  
The ultrastructure of two invertebrate synapses. (Abstract, Paper #46, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) *J. Appl. Phys.* 24:117. 1953.
- Robertson, J. David 3085  
Ultrastructure of two invertebrate synapses. *Proc. Soc. Exptl. Biol. Med.* 82:219-23. 1953.
- Robertson, J. David 3086  
The ultrastructure of crayfish giant synapses. (Abstract, Paper #H2, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/4-6/54.) *J. Appl. Phys.* 25:1462. 1954.
- Robertson, J. David 3087  
The ultrastructure of a reptilian myoneural junction. (Abstract, Paper #H17, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) *J. Appl. Phys.* 25: 1467. 1954.
- Robertson, J. D. 3088  
Recent electron microscope observations on the ultrastructure of the crayfish median-to-motor

giant synapse. Exptl. Cell Research. 8(1): 226-9. 1955.

Robertson, J. David 3089

The ultrastructure of adult vertebrate peripheral myelinated nerve fibers in relation to myelinogenesis. J. Biophys. Biochem. Cytol. 1(1):271-8. 7/25/55.

Robertson, J. S. 3090

A morphological study with the electron microscope of sections of the normal mouse pancreas. Australian J. Exptl. Biol. Med. Sci. 32:229-34. 1954.

Robertson, J. S. 3091

The pancreatic lesion in adult mice infected with a strain of pleurodynia virus. I. Electron microscopical observations. Australian J. Exptl. Biol. Med. Sci. 32:393-409. 1954.

Robinow, C. F. 3092

Spore structure as revealed by thin sections. J. Bacteriol. 66(3):300-11. 9/53.

Robinow, C. F. & R. G. E. Murray 3093

The differentiation of cell wall, cytoplasmic membrane and cytoplasm of gram positive bacteria by selective staining. Exptl. Cell Research. 4:390-407. 5/53.

Robins, W. H. M. 3094

A microscope method of measuring thicknesses of fine particles. Brit. J. Appl. Phys. Suppl. 3:S189-S92. 1954.

Robinson, E. & R. Brown 3095

Cytoplasmic particles in bean root cells. Nature. 171:313. 2/14/53.

Robinson, R. A. & F. W. Bishop 3096

Methods of preparing bone and tooth samples for viewing in the electron microscope. Science. 111:655-7. 6/16/50.

Robinson, R. A. & M. L. Watson 3097

Collagen-crystal relationships in bone as seen in the electron microscope. Anat. Record. 114(3):383-409. 11/52.

Robinson, Robert A. & Michael L. Watson 3098

Crystal-collagen relationships in bone as observed in the electron microscope. III. Crystal and collagen morphology as a function of age. Ann. N.Y. Acad. Sci. 60:596-628. 4/27/55.

Rochow, E. G. & T. G. Rochow 3099

Electron microscopical study of crystalline macromolecular diethyl germanium oxide. (Abstract, Paper #33, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:114. 1951.

Rochow, E. G. & T. G. Rochow 3100

The properties and molecular weights of some silicone polymers. J. Phys. & Colloid Chem. 55(1):9-16. 1/51.

Rochow, T. G., M. C. Botty & F. G. Rowe 3101

Electron microscopical determination of macromolecular weights in resins. (Abstract, Paper #43, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:115. 1951.

Rochow, T. G., A. F. Kirkpatrick & F. G. Rowe 3102

Microscopical resolution of the morphology

of the test-diatom, *Pleurosigma angulatum*. (Abstract, Paper #18, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:112. 1951.

Rochow, Theodore G. & Eugene G. Rochow 3103

The size of silicone molecules. Science. 111:271-5. 3/17/50.

Rochow, W. F., A. Frank Ross & B. M. Siegel 3104

Comparison of local-lesion and electron-microscope particle-count methods for assay of potato virus X from plants doubly infected by potato viruses X and Y. Virology. 1(1):28-39. 1955.

Roegner-Aust, Sophia & B. Deubner 3105

Weitere Untersuchungen über die Pockenkrankheit des Karpfens. Z. Naturforsch. 7b(9/10): 572. 1952.

Roegner-Aust, Sophia & F. Schleich 3106

Zur Ätiologie einiger Fischkrankheiten. Z. Naturforsch. 6b(8):448-51. 1951.

Roelofsen, P. A. 3107

Cell-wall structure in the growth-zone of *Phycomyces* sporangiophores. II. Double refraction and electron microscopy. Biochim. et Biophys. Acta. 6:357-73. 1/51.

Roelofsen, P. A. 3108

Orientation of cellulose fibrils in the cell wall of growing cotton hairs and its bearing on the physiology of cell wall growth. Biochim. et Biophys. Acta. 7:43-53. 1951.

Roelofsen, P. A. 3109

Some notes on xylan crystals. Biochim. et Biophys. Acta. 13:592-3. 1954.

Roelofsen, P. A. 3110

Some remarks concerning flatness of cellulose micelles. Biochim. et Biophys. Acta. 13:155. 1/54.

Roelofsen, P. A., V. Ch. Dalitz & C. F. Wijnman 3111

Constitution, submicroscopic structure and degree of crystallinity of the cell wall of *Halicystis Osterhoutii*. Biochim. et Biophys. Acta. 11:344-52. 1953.

Roelofsen, P. A. & A. L. Houwink 3112

Architecture and growth of the primary cell wall in some plant hairs and in the *Phycomyces* sporangiophore. Acta Botanica Neerl. 2(2): 218-25. 1953.

Roelofsen, P. A. & D. R. Kreger 3113

The submicroscopic structure of pectin in collenchyma cell-walls. J. Exptl. Biol. 2(6): 332-43. 9/51.

Roelofsen, P. A. & D. R. Kreger 3114

The submicroscopic structure of pectin in collenchyma cell-walls. J. Exptl. Botany. 5(13): 24-7. 1954.

Roemer, G. B. & L. Grün 3115

Morphologische Veränderungen an Sporen unter dem Einfluss verschiedener Sterilisationsverfahren. Med. Welt. 20(51/52):1615-7. 1951.

Rogers, G. L. 3116

Gabor diffraction microscopy: the hologram as a generalized zone-plate. Nature. 166:237. 8/5/50.



- Rogers, G. L. 3117  
Experiments in diffraction microscopy. Proc. Roy. Soc. Edinburgh. 63A:193-221. 1950-51.
- Rohde, H. 3118  
Präparation und Übermikroskopische Untersuchung isolierter Gefügebestandteile in Stählen. Z. wiss. Mikroskop. 62(3):155-62. 1955.
- Rollhäuser, Heinz 3119  
Untersuchungen über den submikroskopischen Bau kollagener Fasern. Morph. Jb. 92(1): 1-28. 1952.
- Rollins, Mary L. 3120  
Some aspects of microscopy in cellulose research. Anal. Chem. 26:718-24. 4/54.
- Rollins, Mary L. & Verne W. Tripp 3121  
Optical and electron microscopic studies of cotton fiber structure. Textile Research J. 24(4):345-57. 1954.
- Rollwagen, W. & Ch. Schwink 3122  
Die Empfindlichkeit einfacher elektronenoptischer Schlierenanordnungen. Optik. 10: 525-30. 1953.
- Romanowski, Weislaw & Antoni Feltynowski 3123  
The electron microscope studies of the penetration of bacteria into nucleated erythrocytes. (in Polish) Acta Physiologica Polon. 4:267-72. 1953.
- Romanowski, W. & A. Feltynowski 3124  
Structural changes in human erythrocytes subjected to the influence of specific agglutinins, observed with the aid of an electron microscope. Bull. Acad. polon. sci. 3(2): 73-5. 1955. (in English) Acta Physiol. Polon. 2:171-6. 1955. (in Polish)
- Rosberg, David W. & A. L. Parrack 3125  
The electron microscopy of a bacteriophage attacking *Xanthomonas malvacearum*. Phytopathology. 45(1):49-51. 1955.
- Rose, Noel R. & Harry E. Morton 3126  
The morphologic variation of *Treponema*. Am. J. Syphilis, Gonorrhea, Venereal Diseases. 36:17-37. 1/52.
- Rosenthal, Sol Roy & Beatrice Heagan 3127  
Inhibitory phenomena of filtrates of young cultures of tubercle bacilli (BCG). Relationship to bacteriophage, lysogenic and colicin organisms. Ann. inst. Pasteur. 88:591-600. 5/55.
- Rosenthal, Sol Roy & Beatrice Heagan 3128  
Studies on the life cycle of the tubercle bacillus (BCG). Ann. inst. Pasteur. 88:479-87. 4/55.
- Ross, Malcolm 3129  
Interpretation of transmission electron diffraction spot patterns of certain monoclinic crystals. (Abstract, Paper #6, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26: 1391-2. 1955.
- Ross, S. T., R. P. Sernka & W. E. Jominy 3130  
An electron metallographic study of the dependence of microstructure on hardenability. Trans. Am. Soc. Metals. 47(P reprint No. 13): 1-17. 1955.

- Roth, L. E. 3131  
The fixation of microorganisms for electron microscopy. (Abstract, Paper #20, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24: 1416. 11/53.
- Roth, L. E. 3132  
The effects of solvent treatment on biological thin sections. (Abstract, Paper #H12, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25: 1466. 1954.
- Rouiller, Ch., D. Danon & A. Ryter 3133  
Application de la microscopie électronique à l'étude de la cornée. Acta Anat. 20:39-52. 1954.
- Rouiller, Charles & Hedi Gansler 3134  
Contribution à la pathologie des mitochondries. Bull. microscop. appl. 5(1/2):17-8. 1955.
- Rouiller, C., Lucie Huber, E. Kellenberger, G. Majno & E. Rutishauser 3135  
Étude de la structure de l'os au microscope électronique. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :697-703. Paris, Ed. Rev. Optique, 1953.
- Rouiller, Ch., L. Huber, Ed. Kellenberger & E. Rutishauser 3136  
La structure lamellaire de l'ostéone. Acta Anat. 14(1/2):9-22. 1952.
- Rouiller, Ch., Lucie Huber & Erwin Rutishauser 3137  
Les fibrilles de la substance fondamentale du cartilage hyalin. Étude au microscope électronique (note préliminaire). Arch. sci. Geneva. 5(3):215-8. 1952.
- Rouiller, Ch., L. Huber & E. Rutishauser 3138  
La structure de la dentine. Étude comparée de l'os et de l'ivoire au microscope électronique. Acta Anat. 16(1/2):16-28. 1952.
- Roult, Georges, Agnès Oberlin & Raymond Hocart 3139  
Étude au microscope électronique de la décroissance d'une face (100) de  $\text{ClNa}$ . Mem. Serv. Chim. État Paris. 39(3):201-12. 1954.
- Rouze, S. R. 3140  
Metallic, direct-stripped grating-replicas as internal calibration standards for the electron microscope. (Abstract, Paper #15, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:113. 1953.
- Rouze, S. R. & John H. L. Watson 3141  
Metallic grating replicas as internal standards for calibrating electron microscopes. J. Appl. Phys. 24:1106-9. 9/53.
- Rowen, John W. & Amos Norman 3142  
The size of deoxyribonucleic acid molecules in *E. coli*. Arch. Biochem. Biophys. 51(2):524-8. 1954.
- Rozsa, G., C. Morgan, A. Szent-Györgyi & R. W. G. Wyckoff 3143  
The electron microscopy of myelinated nerve. Biochim. et Biophys. Acta. 6:13-27. 9/50.
- Rozsa, George, Councilman Morgan, Albert Szent-Györgyi & R. W. G. Wyckoff 3144  
The electron microscopy of sectioned nerves. Science. 112:42-3. 7/14/50.

- Rozsa, G. & S. S. Spicer 3145  
Electron microscopy of actomyosin. *Biochim. et Biophys. Acta.* 9:584. 11/52.
- Rozsa, George & S. S. Spicer 3146  
Nature of Heinz bodies. *Nature.* 171:84-5. 1/10/53.
- Rozsa, George, A. Szent-Györgyi & R. W. G. Wyckoff 3147  
The fine structure of myofibrils. *Exptl. Cell Research.* 1:194-205. 4/50.
- Rozsa, G. & R. W. G. Wyckoff 3148  
The electron microscopy of dividing cells. *Biochim. et Biophys. Acta.* 6:334-9. 11/50.
- Rozsa, George & Ralph W. G. Wyckoff 3149  
The electron microscopy of onion root tip cell. *Exptl. Cell Research.* 2:630-41. 1951.
- Rüdiger, O. 3150  
Übermikroskopischer Nachweis der Elementarbereichstruktur bei vielkristallinem Bariumtitanat. *Naturwissenschaften.* 42(24):644. 1955.
- Rudzinska, Maria A. 3151  
The use of OsO<sub>4</sub> as fixative for Feulgen-stained preparations. *J. Biophys. Biochem. Cytol.* 1(5):472-6. 9/25/55.
- Rudzinska, Maria A. & Keith R. Porter 3152  
An electron microscope study of a protozoan, *Tokophrya infusionum*. *Anat. Record.* 115:363-4. 2/53.
- Rudzinska, Maria A. & Keith R. Porter 3153  
Submicroscopic morphology of structures involved in the feeding of *Tokophrya infusionum*. (Abstract) *Proc. Soc. Protozoologists.* 4:9. 9/53.
- Rudzinska, M. A. & K. R. Porter 3154  
Electron microscope study of intact tentacles and disc in *Tokophrya infusionum*. *Experimentia.* 10(11):460. 1954.
- Rudzinska, Maria A. & K. R. Porter 3155  
The origin and fine structure of the brood pouch in *Tokophrya infusionum*. *J. Protozool.* 1:7-8. 8/54.
- Rudzinska, Maria A. & Keith R. Porter 3156  
Observations on the fine structure of the macronucleus of *Tokophrya infusionum*. *J. Biophys. Biochem. Cytol.* 1(5):421-8. 9/25/55.
- Rühle, R. 3157  
Über Gesetzmäßigkeiten in Texturaufnahmen von Elektronenbeugungsbildern. *Optik.* 7:279-83. 10-12/50.
- Rühle, R. 3158  
Übersichts- und Feinstrahlbeugungsbilder an einem Elektronenmikroskop mit Hilfsprojektiven. *Optik.* 7:267-78. 10-12/50.
- Rühle, R. & E. Zehender 3159  
Die Beurteilung von Objekten im Elektronenmikroskop, die während der Beobachtung geschwenkt werden können. *Optik.* 10:111-5. 1953.
- Ruska, Ernst 3160  
Über neue magnetische Durchstrahlungs-Elektronenmikroskope im Strahlenspannungsbereich von 40...220 kV. *I. Kolloid-Z.* 116:102-20. 2/50.

- Ruska, E. 3161  
Über den Aufbau einer elektronenoptischen Bank für Versuche und Demonstrationen. *Z. wiss. Mikroskop.* 60:317-28. 3/52.
- Ruska, Ernst 3162  
Über die Technik der Elektronenmikroskopie und das neue Siemens-Übermikroskop für 100 kV, Siemens-Z. 26:6-15. 1/52.
- Ruska, E. 3163  
Untersuchungen über regelbare magnetostatische Elektronenlinsen. *Z. wiss. Mikroskop.* 61:152-71. 10/52.
- Ruska, Ernst 3164  
Grundlagen, gegenwärtige Leistung und Zukunftsaussichten des Elektronenmikroskops. *Jahrb. Max-Planck-Gesell. Förderung Wiss.* 1955. :160-76.
- Ruska, E. 3165  
Su un moderno microscopio elettronico. *Minerva med.* 46:597-99. 3/3/55. *L'elettrotecnica.* 41(9):442-3. 1954. *Elettronica.* 3(3):139. 1954.
- Ruska, Helmut 3166  
Über Fortschritte der Elektronenmikroskopie. *Fortschr. Med.* 69:295-6. 12/25/51. 70:5-6. 1/10/52.
- Ruska, H. 3167  
Histology of skeletal muscle. (Abstract, Paper #49, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) *J. Appl. Phys.* 24:1420. 11/53.
- Ruska, H., G. Bringmann, I. Neckel & G. Schuster 3168  
Über die Entwicklung sowie den morphologischen und zytochemischen Aufbau v. *Mycobacterium avium* (Chester). *Z. wiss. Mikroskop.* 60:425-47. 3/52.
- Ruska, H. & W. Schwarz 3169  
Elektronenmikroskopische Untersuchungen am Ligamentum suspensorium lentis des Rinderauges. *Z. wiss. Mikroskop.* 60:181-8. 5/51.
- Ruska, H., D. C. Stuart & J. Winsor 3170  
Electron microscopic visualization of intranuclear virus-like bodies in epithelial cells infected with poliomyelitis virus. *Arch. ges. Virusforsch.* 6(5):379-87. 12/55.
- Ruston, W. R. 3171  
Étude de la structure des surfaces de verres conducteurs à l'aide du microscope électronique. *Rapport Europées Congrès Toeg. Em, Gent,* 4/7-10/54. :245-52.
- Rutishauser, E., L. Huber, E. Kellenberger, G. Majno & Ch. Rouiller 3172  
Étude de la structure de l'os au microscope électronique. *Arch. Sciences.* 3:175-80. 1950.
- Ruziczka, O. 3173  
Elektronenoptisch fassbare Wirkung der Antibiotika. *Monatsschr. Kinderheilk.* 99(1):22-4. 1951.
- Ruziczka, O. & E. Orth 3174  
Elektronenmikroskopische Untersuchungen über die Vermehrung der Tuberkelbazillen. *Wien med. Wochschr.* 100(33/34):571. 1951.
- Ruziczka, O. & E. Orth 3175  
Altérations morphologiques du bacille tuberculeux consécutives à l'action de divers médicaments. *Étude au microscope électronique.* *Ann.*



inst. Pasteur. 82(3):334-6. 3/52.

Rybak, B. & M. Bricka 3176  
Clichés électroniques de structures protéiques  
hétéropolaires provenant de sols doués de biré-  
fringence d'écoulement. *Experientia*. 8:265-6.  
7/15/52.

Rymer, T. B. 3177  
Recent developments in electron diffraction.  
*Brit. J. Appl. Phys.* 4:297-302. 10/53.

Sabin, Albert B., Walter A. Hennesen & Joel  
Warren 3178  
Ultrafiltration and electron microscopy of  
three types of poliomyelitis virus propagated  
in tissue culture. *Proc. Soc. Exptl. Biol.*  
*Med.* 85:359-63. 1954.

Sachtler, W. M. H., G. Dorgelo & W. van der  
Knaap 3179  
Structure et texture des couches métalliques  
de nickel obtenues par évaporation et détermi-  
nées avec l'emploi du microscope électronique  
et de la diffraction des électrons. *J. chim.*  
*phys.* 51(9):491-6. 1954.

Sager, R. & G. E. Palade 3180  
Chloroplast structure in green and yellow  
strains of *Chlamydomonas*. *Exptl. Cell Research*.  
7(2):584-8. 1954.

Sager, Ruth & George Palade 3181  
Studies of chloroplast structures in *Chlamy-*  
*domonas*. *Plant Physiol.* 30(Supp.):XIII. 1955.

Sakaguchi, Hiroshi 3182  
Fine structure of the renal glomerulus.  
*Keio J. Med.* 4(3):103-12. 1955.

Salines, Vincent 3183  
Dispersion of fine particles for electron  
microscopy. *Anal. Chem.* 22:848. 1950.

Salton, M. R. J. 3184  
Cell wall of *Micrococcus lysodeikticus* as  
the substrate of lysozyme. *Nature*. 170:746-7.  
11/1/52.

Salton, M. R. J. 3185  
Cell structure and the enzymic lysis of  
bacteria. *J. Gen. Microbiol.* 9:512-23. 1953.

Salton, M. R. J. & R. W. Horne 3186  
Studies of the bacterial cell wall. I. Elec-  
tron microscopical observations on heated bac-  
teria. *Biochim. et Biophys. Acta.* 7:19-42.  
5/51.

Salton, M. R. J. & R. W. Horne 3187  
Studies of the bacterial cell wall. II. Meth-  
ods of preparation and some properties of cell  
walls. *Biochim. et Biophys. Acta.* 7:177-97.  
7/51.

Salton, M. R. J. & Robley C. Williams 3188  
Electron microscopy of the cell walls of  
*Bacillus megaterium* and *Rhodospirillum rubrum*.  
*Biochim. et Biophys. Acta.* 14:455-8. 1954.

Salvin, S. B. & E. Ribi 3189  
Antigens from yeast phase of *Histoplasma cap-*  
*sulatum*. II. Immunologic properties of proto-  
plasm vs. cell walls. *Proc. Soc. Exptl. Biol.*  
*Med.* 90:287-94. 10/55.

Samec, M. 3190  
Neuere Beobachtungen über zeitliche Veränd-  
erungen von Stärkelösungen. *Stärke*. 7(6):  
131-6. 1955.

Samosudova, N. V. 3191  
Electron microscopical investigation on the  
structure of muscle by means of ultrathin sec-  
tions. (in Russian) *Doklady Akad. Nauk S.S.S.R.*  
103(2):317-9. 1955.

Sand, L. B. & J. J. Comer 3192  
A study in morphology by electron diffraction.  
*Proc. 3rd Natl. Conf. Clays and Clay Minerals.*  
Houston, Texas. Washington, National Research  
Council, 1955. :26-30.

Santymire, Morton, James L. Hall & A. R.  
Collett 3193  
An electron microscope study of some West  
Virginia manganese ores. *Proc. W. Va. Acad.*  
*Sci.* 24:93-5. 1952.

Saperstein, Sidney & Mortimer P. Starr 3194  
Association of carotenoid pigments with pro-  
tein components in non-photosynthetic bacteria.  
*Biochim. et Biophys. Acta.* 16:482-8. 1955.

Sarkar, A. K. 3195  
An electron-microscopic study of the colloidal  
structure of coal tars. *Kolloid-Z.* 130:116-20.  
2/53.

Sasaki, Hiroshi & Juichi Miyata 3196  
Experimental studies on otoliths. *Yonage*  
*Acta Med.* 1(1):49-54. 1954.

Sasaki, Nobuji, Nagahiko Kishimoto, Ryuzo Ueda,  
Toru Kuroda & Hajime Okamoto 3197  
Studies on the microstructure of steel at  
high temperatures by means of the emission-type  
electron microscope. I. (in Japanese) *Nippon-*  
*Kinzoku-Gakkaishi*. 16(3):165-9. 1952.

Sasaki, Nobuji & Ryuzo Ueda 3198  
A specimen-treating adaptor for the electron  
microscope. *Rev. Sci. Instr.* 23:136-8. 3/52.

Sasaki, Nobuji & Ryuzo Ueda 3199  
The electron microscopic and micro-diffraction  
studies on the changes in specimens. *Bull.*  
*Inst. Chem. Research, Kyoto Univ.* 32(2):87-90.  
1954.

Sasaki, Nobuji, Ryuzo Ueda, Kiichi Narita &  
Shoji Fukuda 3200  
Electron microscopical observations of tungsten  
powder. 1st Int. Cong. Electron Micros., Paris,  
9/50. *Proc.* :536. Paris, Ed. Rev. Optique,  
1953.

Sasaki, Yoneichiro & Susumu Maruse 3201  
Method of measuring spherical and astigmatic  
aberrations of an electron lens. *J. Electron-*  
*microscopy.* 2(1):8-9. 1954.

Sato, S. 3202  
Electron microscopical studies on reproductive  
cells of plants. IV. Structure of spermatozoid  
of *Chara braunii*. (in French) *Cytologia*,  
Tokyo. 19(4):329-35. 1954.

Sato, T. 3203  
Electron-microscopic observation and the  
thermal analysis of the seed charge. *J. Chem.*  
*Soc. Japan.* 56:478-80. 1953.

Saulnier, A. 3204  
Application du microscope électronique a la  
métallographie des alliages légers. *Ing. et*  
*Techniciens.* 26:327-9. 10/50.

Saulnier, A. 3205  
Le microscope électronique dans un laboratoire  
de métallographie. 1st Int. Cong. Electron

- Micros., Paris, 9/50. Proc. :424-30. Paris, Ed. Rev. Optique, 1953.
- Saulnier, A. 3206  
Evolution structurale par revenu d'un alliage Cu-Be 2%. Rev. mét. 51(7):467-81. 1954.
- Saulnier, A. 3207  
Quelques aspects au microscope électronique des alliages cuivre-beryllium 2% industriels. Rapport Europées Congrès Toeg. Em, Gent, 4/7-10/54. :183-93.
- Saulnier, Adrien 3208  
Applications du microscope électronique à la physique des métaux et au contrôle des produits métallurgiques. Rev. aluminium. 32:263-71. 1955. Schweiz. Tech. Z. 9/10:263-71. 3/55.
- Saulnier, Adrien 3209  
Le durcissement structural des alliages aluminium-cuivre 4%. Rev. aluminium. 217:41-8. 1/55.
- Saulnier, A. 3210  
Quelques applications du microscope électronique à la physique des métaux et au contrôle des produits métallurgiques. Schweiz. Tech. Z. 9/10:129-56. 3/55.
- Saulnier, A. 3211  
Les séquences de précipitation et le durcissement structural des alliages Al-Cu 4%. Schweiz. Arch. angew. Wiss. u. Tech. 21:169-208. 6/55.
- Saulnier, A. & R. Syre 3212  
Maturation, revenu et réversion des alliages Al-Cu 4%, Al-Cu-Mg et Al-Cu-Mg-Si de haute pureté. Rev. mét. 49:1-21. 1/52.
- Saulnier, A. & R. Syre 3213  
Titane et alliages de titane. Rev. mét. 51(5):293-304. 1954.
- Sawai, Yosio & Shogo Noda 3214  
Studies on the agglutination of the vaccinia virus by the electron microscope. Japan J. Exptl. Med. 23:357-9. 1953.
- Sawamura, Hiroshi 3215  
On the electron microscopic structure of the graphitic and temper carbon in cast iron. Mem. Fac. Eng. Kyoto Univ. 13(4):209-12. 1951.
- Sawamura, Hiromitsu & Tadayuki Nakayama 3216  
Titanium replica for electron microscopy. Rpts. Sci. Research Inst. Japan. 29:269-70. 1953.
- Sawkill, J. 3217  
Nucleation in silver azide: an investigation by electron microscopy and diffraction. Proc. Roy. Soc. London. 229A:135-42. 1955.
- Scanga, Franco 3218  
La cellula batterica. Rome, Il Pensiero Scientifico, 1954. 477p.
- Schachman, Howard K., Arthur B. Pardee & Roger Y. Stanier 3219  
Studies of the macromolecular organization of microbial cells. Arch. Biochem. 38:245-60. 7/52.
- Schäfer, Warner & Klaus Munk 3220  
Studies on the complement-fixing-antigen of the fowl plague virus. Cold Spring Harbor Symposia Quant. Biol. 18:169. 1953.
- Schäfer, Werner, Klaus Munk & Otto Armbruster 3221  
Eigenschaften tierischer Virusarten, untersucht an den Geflügelpestviren als Modell. III. Mitteilung: Weitere Untersuchungen über die physikochemischen und morphologischen Eigenschaften der Geflügelpestviren. Z. Naturforsch. 7b:29-33. 1/52.
- Schäfer, Werner & Gerhard Schramm 3222  
Über die Isolierung und Charakterisierung des Virus der klassischen Geflügelpest. Z. Naturforsch. 5b:91-102. 2-3/50.
- Schäfer, Werner & Wolfram Zillig 3223  
Über den Aufbau des Virus-Elementarteilchens der klassischen Geflügelpest. I. Mitt. Gewinnung, physikalisch-chemische und biologische Eigenschaften einiger Spaltprodukte. Z. Naturforsch. 9b(12):779-88. 1954.
- Schäfer, Werner, Wolfram Zillig & Klaus Munk 3224  
Isolierung und Charakterisierung h<sub>2</sub>magglutinierender nicht-infektioser Einheiten bei klassischer Geflügelpest. Ein Beitrag zur Kenntnis der "inkompletten Virusformen". Z. Naturforsch. 9b(5):329-40. 1954.
- Scheffels, W., B. von Borries & F. Lenz 3225  
Beobachtung einer Erhöhung des Streuvermögens von Atomen gegenüber Elektronenstrahlen unter Elektronenbeschuss. Naturwissenschaften. 4:83-4. 1954.
- Scheffels, W., B. von Borries & F. Lenz 3226  
Neue Versuche zur Änderung der im Elektronenmikroskop Untersuchten Objekte durch den Elektronenstrahl. Rapport Europées Congrès Toeg. Em, Gent, 4/7-10/54. :293-7. 1954.
- Schiefer, Herbert F. & John F. Krasny 3227  
Note on the disintegration of wool in abrasion tests. J. Research Natl. Bur. Standards. 44:9-14. 1/50.
- Schickel, M. 3228  
Elektronenoptische Geschwindigkeitsfilter. Optik. 9(4):145-53. 1952.
- Schilling, V. 3229  
Was ist ein Cabot-Ring licht- und elektronenmikroskopische? Medizinische. 17:620-2. 4/54.
- Schiske, Peter 3230  
An electrostatic single lens permitting rigorous calculation. Nature. 171:443. 3/7/53.
- Schleicher, Hens Walter 3231  
Beobachtungen an Eisenspitzen im Feldelektronenmikroskop. Z. Naturforsch. 7:470-4. 7/52.
- Schlipkötter, Hans-Werner 3232  
Elektronenoptische Untersuchungen ultradünner Lungenschnitte. Deut. med. Wochschr. 79(45):1658-9. 11/5/54.
- Schlipkötter, Hans-Werner 3233  
Elektronenoptische Untersuchungen von Gewebeschnitten aus silikotischen Granulomen. Klin. Wochschr. 33(3/4):54-6. 1/15/55.
- Schlipkötter, Hans-Werner & L. Grün 3234  
Altersbedingte morphologische Veränderungen an Leptospiren. Arch. Hyg. u. Bakteriöl. 136(3):211-7. 1952.
- Schlossmann, Karl & Stig Hedman 3235  
Elektronmikroskopiska studier av Salmonella



typhi och *Shigella flexneri* före och efter påverkan av penicillin och aureomycin. Nord. Med. 44:1167. 1950.

Schlossmann, Karl & Stig Hedman 3236  
Elektronenoptische Befunde an Bakterienzellen unter dem Einfluss der Patientensera. Z. wiss. Mikroskop. 60:386-92. 3/52.

Schluge, H. 3237  
Die besonderen eigenschaften des AEG-Zeiss elektronenmikroskops in Hinblick auf seine Anwendung in Forschung und Technik. Rapport Europées Congrès Toeg. Em, Gent, 4/7-10/54. :223-38.

Schluge, H. 3238  
Europäischer Kongress für angewandte Elektronenmikroskopie in Gent. Physik. Bl. 10: 276-7. 1954.

Schmerold, W. & B. Deubner 3239  
Elektronenmikroskopische Untersuchungen an Reiter-Spirochaetales und Nichols-Treponemen. Hautarzt. 5(11):511-3. 1954.

Schmid, Gerhard & Heinz Spähn 3240  
Über das chemische Glänzen von Messing und Neusilber. II. Die mikroskopische Gestalt der Oberfläche des geglänzten Metalls. Z. Metallk. 45(6):398-401. 1954.

Schmitt, Francis O. 3241  
A fibrous component of the nerve axon. (Abstract, Paper #40, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:71. 1950.

Schmitt, Francis O., Jerome Gross & John H. Highberger 3242  
A new particle type in certain connective tissue extracts. Proc. Natl. Acad. Sci. U.S. 39(6):459-70. 6/53.

Schober, B. & V. Prokes 3243  
Supporting films of carbon for use in electron microscopy. Folia Biol. Prague. 1:316-8. 1955.

Schoen, A. L. & J. F. Hamilton 3244  
The sensitometry of photographic materials exposed to electrons. (Abstract, Paper #9, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:157. 1/52.

Schofield, F. 3245  
A new method of preparing paste and powder specimens for the electron microscope. Brit. J. Appl. Phys. 2:18-9. 1/51.

Schrader, Angelica 3246  
Elektronenoptische Gefügeuntersuchung von streifigem Perlit und von perlitischem Gefüge in einem Chrom-Magnetstahl. Optik. 7:219-36. 4-5/50.

Schrader, Angelika 3247  
Zusammenhang zwischen Ätzen von Stahlschliffen, Lackabdruck und Übermikroskopischem Bild. Z. wiss. Mikroskop. 60:309-16. 3/52.

Schrader, Angelica & Franz Wever 3248  
Zur Frage der Eignung des Elektronenmikroskops für die Gefügeuntersuchung von Stählen. Arch. Eisenhüttenw. 23(11/12):489-95. 1952.

Schramm, Gerhard 3249  
Über die Größe und Gestalt des Kartoffel-Y-

Virus. Z. Naturforsch. 7b:513-8. 9-10/52.

Schramm, Gerhard & Georg Berger 3250  
Elektronenmikroskopische Untersuchungen über die Struktur des Hämocyanins von *Helix pomatia*. Z. Naturforsch. 7b:284-7. 5/52.

Schramm, G., G. Schumacher & W. Zillig 3251  
An infectious nucleoprotein from tobacco mosaic virus. Nature. 175:549-50. 3/26/55.

Schramm, G., G. Schumacher & W. Zillig 3252  
Über die Struktur des Tabakmosaikvirus. III. Der Zerfall in alkalischer Lösung. Z. Naturforsch. 10b:481-92. 9/55.

Schramm, Gerhard, Otto Westphal & Otto Lüderitz 3253  
Über bakterielle Reizstoffe. III. Physikalisch-chemisches Verhalten eines hochgereinigten Coli-Pyrogens. Z. Naturforsch. 7b:594-7. 11/52.

Schramm, Gerhard & Malene Wiedemann 3254  
Größenverteilung des Tabakmosaikvirus in der Ultrazentrifuge und im Elektronenmikroskop. Z. Naturforsch. 6b(7):379-83. 1951.

Schramm, Gerhard & Wolfram Zillig 3255  
Über die Struktur des Tabakmosaikvirus. IV. Die Reaggregation des nucleinsäure-freien Proteins. Z. Naturforsch. 10b:493-9. 1955.

Schreil, Werner 3256  
Ein präparativer Beitrag zur durchstrahlenden Elektronenmikroskopie von Bakterien. Mikroskopie. 10(1/2):38-40. 1955.

Schreil, Werner 3257  
Über die Dauerhaftigkeit von Palavitabdrücken in der Elektronenmikroskopie. Mikroskopie. 10:128. 1955.

Schreil, W. & F. Schleich 3258  
Elektronenmikroskopische Untersuchungen an fixierten und lebenden Mikroorganismen unter Anwendung der Abdruckverfahren. Z. Hygiene u. Infektionskrankh. 141:576-84. 1955.

Schreil, W. & F. Schleich 3259  
Elektronenmikroskopische Untersuchungen an lebenden Bakterien mit Hilfe des Abdruckverfahrens. Experientia. 11(4):144-6. 1955.

Schreus, H. T. & K. H. Emde 3260  
Elektronenoptische Untersuchungen an einigen pathogenen Hautpilzen. Hautarzt. 4:14-6. 1953.

Schroeder, D. 3261  
Neuere Methoden zur Bestimmung der Tonminerale im Boden. Z. Pflanzenernähr. Düng. u. Bodenk. 64:209-16. 1954.

Schuchardt, Eduard & Mechthild Knoch 3262  
Elektronenmikroskopische Befund am Glaskörper des Auges. Naturwissenschaften. 37:426. 1950.

Schulek, E., E. Pungor & F. Guba 3263  
Elektronenmikroskopische Kontrolle der "Wandwirkung" in den Adsorptionerscheinungen. Anal. Chim. Acta. 8:261-73. 3/53.

Schulek, E., E. Pungor & E. Guba 3264  
Beiträge zur Morphologie des nach dem L. W. Winkler'schen Verfahren Hergestellten BaSO<sub>4</sub>-Niederschlags. Anal. Chim. Acta. 10:506-9. 6/54.

Schultz-Larsen, J. 3265  
On the structure of the nuclear spindle. An

electron microscopie study. Acta Pathol. Microbiol. Scand. 32:567-73. 4/53.

Schultz-Larsen, J., R. Hammen & F. Carlsen 3266  
On the occurrence of galea capitis in human sperm. Acta. Pathol. Microbiol. Scand. 35(1):45-53. 1954.

Schultz-Larsen, J., Mogens Hauge & Fritz Carl-  
sen 3267  
Studies on the morphology of mammalian chromosomes by electron microscopy. I. A modified squash technique. Acta Pathol. Microbiol. Scand. 33:3-4. 1952.

Schulz, L. G. 3268  
Examination of thin overgrowths by multiple scattering of electrons J. Appl. Phys. 21: 942-3. 9/50.

Schuringa, G. J. & L. Algera 3269  
The membrane of the Allwörden sacs as a structural element of wool. Biochim. et Biophys. Acta. 6:325-33. 11/50.

Schuringa, G. J., L. Algera, J. Isings & A. J. Ultée, Jr. 3270  
Einige Bemerkungen über die Epikutikula der Wolle. Experientia. 8:57-8. 2/52.

Schuster, Gunter P. K. 3271  
Einige licht- und elektronenmikroskopische Beobachtungen an *Malleomyces mallei* (Pribram). Z. wiss. Mikroskop. 61:101-5. 6/52.

Schütz, E. W. 3272  
Bericht über die schweizerischen Arbeiten auf dem Gebiet der Elektronenmikroskopie. Optik. 11:145-8. 1954.

Schütz, Eric William 3273  
Zur Chemie der Kupferkorrosion in Natriumchlorid-Lösungen Doctoral dissertation, University of Bern, Switzerland, 2/10/54. 95 p.

Schwartz, C. M. 3274  
The progress of electron microscopy of metals in America (excluding the light metals). In Metallurgical Applications of the Electron Microscope. Institute of Metals Monograph and Report Series No. 8. pp. 125-38. London, 1950.

Schwartz, C. M. 3275  
Positive versus negative plastic replicas. Symposium on Techniques for Electron Metallography. Special Technical Publication #155. Am. Soc. Testing Materials. 114-8. 1953.

Schwarz, Willy 3276  
Elektronenmikroskopische Untersuchungen am Aussenkolben der Vater-Pacinischen Körperchen. Z. Zellforsch. u. mikroskop. Anat. 36:436-7. 1951.

Schwarz, Willy 3277  
Die Gelkörperfibrillen des menschlichen Glaskörpers. Z. Zellforsch. u. mikroskop. Anat. 36:284-92. 1951.

Schwarz, Willy 3278  
Elektronenmikroskopische Untersuchungen über den Aufbau der Sklera und der Cornea des Menschen. Z. Zellforsch. u. mikroskop. Anat. 38:26-49. 1953.

Schwarz, Willy 3279  
Elektronenmikroskopische Untersuchungen über die Differenzierung der Cornea- und Sklerafibrillen des Menschen. Z. Zellforsch. u.

mikroskop. Anat. 38:78-86. 1953.

Schwarz, Willy 3280  
Elektronenmikroskopische Untersuchungen über die zwischenzellige Substanz der Gingiva. 13th Congrès Assoc. Recherches Parodontopathies, Genève, p. 7. 7/14-19/53. Rapp. et Comm.

Schwarz, Willy 3281  
Elektronenmikroskopische Untersuchungen der Altersveränderungen in der Media der menschlichen Aorta. Virchow's Archiv. pathol. Anat. u. Physiol. 324:612-28. 1954.

Schwarz, W. 3282  
Kurzer Bericht über die Demonstration von elektronenmikroskopischen Befunden aus dem Gebiet der Ophthalmologie. In Zeitfragen der Augenheilkunde. 216-20. Leipzig, VEB Georg Thieme, 1954.

Schwarz, Willy 3283  
Die Zwischensubstanzen des Bindegewebes. In Kapillaren und Interstitium. Hamburger Symposium, 10/29-31/54. 29-40. Stuttgart, Georg Thieme, 1955.

Schwarz, Willy & Norbert Dettmer 3284  
Elektronenmikroskopische Untersuchung des elastischen Gewebes in der Media der menschlichen Aorta. Virchow's Arch. pathol. Anat. u. Physiol. 323:243-68. 1953.

Schwarz, W. & H. Ruska 3285  
Über Faserstrukturen im Glaskörper und in der Linse des Säugetierauges. Optik. 7:318. 10-12/50.

Schwarz, W. & H. Ruska 3286  
Elektronenmikroskopische Darstellung eines neuartigen Strukturprinzips an den Fibrillen des Vater-Pacinischen Körperchens. Z. wiss. Mikroskop. 60:305-7. 9/51.

Schwarz, W. & Gerda Vester 3287  
Cremolan, ein wasserlösliches Einbettungsmittel für histologische und elektronenmikroskopische Schnittpräparate. Z. wiss. Mikroskop. 61(6):328-32. 8/53.

Schwerdt, C. E., R. C. Williams, W. M. Stanley, F. L. Schaffer & M. E. McClain 3288  
Morphology of type II poliomyelitis virus (MEFI) as determined by electron microscopy. Proc. Soc. Exptl. Biol. Med. 86:310-2. 1954.

Schwiete, Hans Ernst & Ludwig Zagar 3289  
Die Bindung und das Verhalten des Schwefels in Hochofenschlacke und Hüttenwolle. Arch. Eisenhüttenw. 25(5/6):195-206. 1954.

Schwink, Christoph 3290  
Über den Einfluss des inneren Zustands auf die Polpunktslage magnetisierter Nickeldrähte. Z. Physik. 143:205-18. 1955.

Schwink, Ch. 3291  
Über neue quantitative Verfahren der elektronenoptischen Schattenmethode. Optik. 12: 481-96. 1955.

Schytil, F. & R. Volpers 3292  
Über die verstärkende Wirkung von Gummifüllstoffen. Kolloid-Z. 130:110-5. 2/53.

Science Library, Science Museum, London, England 3293  
Application of the electron microscope to the study of paints and paint materials; references from 1947 to 1951. Bibliographical series No.



708. 4 p. 1952.

- Scott, David B. 3294  
Microscopic studies of dental tissues. I. Electron microscopy of tooth structure. Oral Sur. Oral Med. Oral Pathol. 5:527-35. 5/52.
- Scott, David B. 3295  
The electron microscopy of enamel and dentine. Ann. N. Y. Acad. Sci. 60(5):575-84. 4/27/55.
- Scott, David B. & John T. Albright 3296  
Electron microscopy of carious enamel and dentine. Oral Surg. Oral Med. Oral Pathol. 7(1):64-78. 1/54.
- Scott, David B., Robert G. Picard & Ralph W. G. Wyckoff 3297  
Studies of the action of sodium fluoride on human enamel by electron microscopy and electron diffraction. Pub. Health Repts. U. S. 65:43-56. 1/13/50. \*\*\*Note correction: Ibid. 65:194. 2/10/50.
- Scott, David B., Marie J. Ussing, Reidar F. Sognnaes & Ralph W. G. Wyckoff 3298  
Electron microscopy of mature human enamel. J. Dent. Research. 31:74-84. 2/52.
- Scott, David B. & Ralph W. G. Wyckoff 3299  
Electron microscopy of enamel and dentine. (Abstract, Paper #24, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:69. 1950.
- Scott, David B. & Ralph W. G. Wyckoff 3300  
Electron microscopy of human dentin. J. Dental Research. 29(4):556-60. 8/50.
- Scott, David B. & Ralph W. G. Wyckoff 3301  
Studies of the action of sodium fluoride on human enamel by electron microscope and electron diffraction. (Abstract, Paper #25, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:69. 1950.
- Scott, David B. & Ralph W. G. Wyckoff 3302  
The study of enamel by electron microscopy. J. Am. Dent. Assoc. 44:377-85. 4/52.
- Scott, G. D. 3303  
An optical method for the thickness of thin films. (Abstract, Paper #46, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:72. 1950.
- Scott, G. D. & Frances Dawes 3304  
The temperature of electron microscope specimens. (Abstract, Paper #1, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:66. 1950.
- Scott, G. D., T. A. McLauchlan & R. S. Sennett 3305  
The thickness measurement of thin films by multiple beam interferometry. J. Appl. Phys. 21:843-6. 9/50.
- Scott, Maxwell 3306  
Electronic trends in microscopy. J. Quekett Microscop. Club. 3:480-7. 8/53.
- Seal, M. & J. W. Menter 3307  
Crystallographic slip in diamond. Phil. Mag. 44:1408-10. 1953.
- Sebruyns, M. 3308  
Study of the ultrastructure of the retinal epithelium by means of the electronic microscope. Am. J. Ophthalmol. 34(7):989-92. 1951.
- Sebruyns, M. 3309  
The ultrastructure of the cornea and the lens studied by means of the electronic microscope. Am. J. Ophthalmol. 34(10):1437-42. 1951.
- Sebruyns, M. 3310  
De Histo-physiologie van het Pigmentepitheel van de Retina in het Licht der elektronische Microscopie. Natuurw. Tijdschr. Ghent. 34(4/5):111-4. 1953.
- Sebruyns, Marcel & Alfons Lagasse 3311  
Beiträge zum Studium der Ultrastruktur der Pigmentkörner mit Hilfe des Elektronenmikroskops. Mikroskopie. 6(7/8):237-41. 1951.
- Sedar, Albert W., H. W. Beams & C. D. Janney 3312  
Electron microscopic studies on the ciliary apparatus of the gill cells of *Mya arenaria*. Proc. Soc. Exptl. Biol. Med. 79:303-5. 1952.
- Sedar, Albert W. & Keith R. Porter 3313  
The fine structure of the cortical components of *Paramecium multimicronucleatum*. J. Protozool. 1(Suppl.):4. 8/54.
- Sedar, Albert W. & Keith R. Porter 3314  
The fine structure of cortical components of *Paramecium multimicronucleatum*. J. Biophys. Biochem. Cytol. 1(6):583-604. 11/25/55.
- Sedar, Albert W. & Keith R. Porter 3315  
Fine structure of the cortex in *Paramecium multimicronucleatum*. (Abstract, Paper #37, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26:1398. 1955.
- Sedar, Albert W. & Donald F. Wilson 3316  
Electron microscopic studies on the normal and colchicized mitotic figures of the onion root tip (*Allium cepa*). Biol. Bull. 100:107-15. 4/51.
- Seeliger, R. 3317  
Sind Oberflächenabdrücke formtreu? Optik. 7:303-8. 11-12/50.
- Seeliger, R. 3318  
Über die Justierung sphärisch korrigierter elektronenoptischer Systeme. Optik. 10:29-41. 1953.
- Seki, Masaji 3319  
Molekularhistologische Studien über die Elementar- und Mikrofibrillen des Kollagen mit besonderer Berücksichtigung der Dipolwirkung bei ihrer Neubildung und Entwicklung. and II. Nähere Beobachtung über die periodische Querzonierung der Kollagenen Mikrofibrillen. Arch. hist. Japon. 3(4):465-76. 1952. Ibid. 7(1):5-18. 1954.
- Selby, Cecily Cannan 3320  
Electron micrographs of mitotic cells of the Ehrlich mouse ascites tumor in thin sections. Exptl. Cell Research. 5(2):386-93. 1953.
- Selby, Cecily Cannan 3321  
The electron microscopy of normal and neoplastic cells. Texas Repts. Biol. and Med. 11(4):728-44. 1953.
- Selby, Cecily Cannan 3322  
Electron-optical comparisons of the cytoplasm

of normal and neoplastic cells. (Abstract, Paper #40, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:116-7. 1953.

Selby, C. C. 3323  
Electron microscopy: a review. Cancer Research. 13:753-5. 11/53.

Selby, Cecily Cannan 3324  
An electron microscope study of the epidermis of mammalian skin in thin sections. I. Dermo-epidermal junction and basal cell layer. J. Biophys. Biochem. Cytol. 1(5):429-44. 9/25/55.

Selby, Cecily Cannan 3325  
An electron microscope study of the epidermis of mammalian skin in thin sections. II. Superficial cell layers. (Abstract, Paper #15, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26:1393. 1955.

Selby, Cecily Cannan & Ruth E. Berger 3326  
An electron-optical comparison of the cytoplasmic morphology of cultured adult, embryonic, and neoplastic human epithelial cells. Cancer. 5:770-86. 7/52.

Selby, C. C., C. E. Grey, S. Lichtenberg, C. Friend, A. E. Moore & J. J. Biesele 3327  
Submicroscopic cytoplasmic particles occasionally found in the Ehrlich mouse ascites tumor. Cancer Research. 14(11):790-4. 12/54.

Seligman, Arnold M. 3328  
Speculations concerning some approaches to the development of histochemical methods for electron microscopy. (Abstract, Paper #27, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26:1395. 1955.

Selman, G. G. & C. H. Waddington 3329  
The structure of the spermatozoa in dextral and sinistral races of *Limnaea peregra*. Quart. J. Microscop. Sci. 94(4):391-7. 1953.

Selme, Pierre 3330  
Évolution de la structure des grains de bromure d'argent exposés à un faisceau d'électrons. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :537-8. Paris, Ed. Rev. Optique, 1953. Sci. et ind. phot. 22(10):361-8. 1951.

Semal-van Gansen, P. 3331  
La structure des nématocystes de l'Hydre d'eau douce. Bull. classe sci., Acad. roy. Belg. 40:269-87. 1954.

Sen Gupta, P. C., N. N. Das Gupta & D. L. Bhattacharya 3332  
Electron and photomicrographic studies of the flagellate form of *Leishmania donovani*. Nature. 167:1063-4. 6/30/51.

Sennett, R. S. 3333  
The effect of heating evaporated metal films. (Abstract, Paper #45, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:115. 1951.

Sennett, R. S. & T. A. McLauchlan 3334  
Continuous observations on the formation of metallic films in the electron microscope. J. Appl. Phys. 21:72. 1950.

Sennett, R. S., T. A. McLauchlan & G. D.

Scott 3335  
Electron microscope studies of evaporated cadmium and zinc. Can. J. phys. 30:370-2. 9/52.

Sennett, R. S. & G. D. Scott 3336  
The structure of evaporated metal films and their optical properties. J. Opt. Soc. Amer. 40:203-11. 4/50.

Senseney, C. A., P. R. Desjardins & G. E. Hess 3337  
Electron microscope studies of purified tobacco ring spot virus. Phytopathology. 42:343-4. 1952.

Senseney, C. A., Robert P. Kahn & P. R. Desjardins 3338  
Particle size and shape of purified tomato-ringspot virus. Science. 120:456-7. 9/17/54.

Septier, Albert 3339  
Calcul de la répartition de potentiel  $Q(z)$  sur l'axe d'un objectif électrostatique à immersion à électrodes épaisses. Compt. rend. acad. sci. 235:1203-6. 11/17/52.

Septier, Albert 3340  
Étude expérimentale de l'objectif électrostatique à immersion à électrodes planes: courbes de focalisation et distance focale. Compt. rend. acad. sci. 235:1621-3. 12/22/52.

Septier, Albert 3341  
Objectif à immersion électrostatique à haut pouvoir séparateur d'un type nouveau. Compt. rend. acad. sci. 235:652-4. 9/29/52.

Septier, Albert 3342  
Sur le pouvoir séparateur de l'objectif électrostatique à immersion. Compt. rend. acad. sci. 235:609-11. 9/22/52.

Septier, Albert 3343  
Étude expérimentale de l'objectif à immersion électrostatique à électrodes planes: champ extracteur  $E_0$  dans les conditions de focalisation. Aberrations géométriques en dehors de l'axe. Compt. rend. acad. sci. 236:58-60. 1/5/53.

Septier, Albert 3344  
Microscopie électronique à émission ses applications en métallurgie. Rev. Métallurgie. 50(3):208-14. 1953.

Septier, Albert M. 3345  
Sur l'obtention d'images électroniques de surfaces bombardées par des ions. Compt. rend. acad. sci. 237:231-3. 7/20/53.

Septier, A. 3346  
Valeur de pouvoir séparateur théorique de l'objectif électrostatique à immersion. Compt. rend. acad. sci. 240:1200-2. 1955.

Septier, Albert & Maurice Gauzit 3347  
Un microscope électrostatique à émission. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :246-51. Paris, Ed. Rev. Optique, 1953.

Septier, A., M. Gauzit & P. Baruch 3348  
Nitruration du niobium. Compt. rend. acad. sci. 234:105-7. 1/2/52.

Shapiro, Jennie E. 3349  
A method of preserving specimen grids for electron microscopy. Rev. Sci. Instr. 21:500. 5/50.



- Shapiro, Jennie E. & George S. Tulloch 3350  
The poison setae of carpet beetle larvae. (Abstract, Paper #42, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:117. 1953.
- Sharp, D. Gordon 3351  
Particle size and density of Dow Latex 580 G - Measurements with the ultracentrifuge. (Abstract, Paper #43, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:71. 1950.
- Sharp, D. Gordon 3352  
Ovomucin and the egg white inhibitor of influenza virus hemagglutination. (Abstract, Paper #24, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:113. 1951.
- Sharp, D. G. 3353  
An improved procedure for counting virus particles in plasma and other body fluids. (Abstract, Paper #31, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:162. 1/52.
- Sharp, D. Gordon 3354  
Purification and properties of animal viruses. Advances in Virus Research. 1:277-313. 1953.
- Sharp, D. Gordon 3355  
Quantitative results with sedimentation microscopy of viruses in crude animal fluids. (Abstract, Paper #29, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:115. 1953.
- Sharp, D. Gordon 3356  
Use of the electron microscope in determining electrophoretic mobility and sedimentation velocity of virus in blood plasma. (Abstract, Paper #36, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1418. 11/53.
- Sharp, D. Gordon 3357  
Further data on the nature of avian erythromyeloblastic leukosis virus. (Abstract, Paper #F5, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1461. 1954.
- Sharp, D. G. & J. W. Beard 3358  
Size and density of polystyrene particles measured by ultracentrifugation. J. Biol. Chem. 185:247-53. 7/50.
- Sharp, D. G. & J. W. Beard 3359  
Counts of virus particles by sedimentation on agar and electron micrography. Proc. Soc. Exptl. Biol. Med. 81:75-9. 1952.
- Sharp, D. G., Dorothy Beard & J. W. Beard 3360  
Morphology of characteristic particles associated with avian erythroblastosis. Proc. Soc. Exptl. Biol. Med. 90:168-73. 1955.
- Sharp, D. Gordon & M. J. Buckingham 3361  
Electron microscopic study of dispersion in virus particle suspensions. (Abstract, Paper #31, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26:1396. 1955.
- Sharp, D. G., Edward A. Eckert, Dorothy Beard & J. W. Beard 3362  
Morphology of the virus of avian erythromyeloblastic leucosis and a comparison with the agent of Newcastle disease. J. Bacteriol. 63:151-61. 2/52.
- Sharp, D. G., Edward A. Eckert, B. R. Burmeister & J. W. Beard 3363  
Particulate component of the plasma of fowls with avian lymphomatosis. Proc. Soc. Exptl. Biol. Med. 79:204-8. 1952.
- Sharp, D. G., Frank Lanni & J. W. Beard 3364  
The egg white inhibitor of influenza virus hemagglutination. II. Electron microscopy of the inhibitor. J. Biol. Chem. 185:681-8. 8/50.
- Sharp, D. G. & F. A. Wolf 3365  
The virus of tobacco leaf curl. II. Phytopathology. 41:94-8. 1/51.
- Sharpe, J. W. 3366  
A stereoscopic technique for use with an electron microscope. Brit. J. Appl. Phys. 2:78-80. 3/51.
- Sharpe, J. W. & R. F. Hounam 3367  
General techniques for the examination of airborne dusts with the electron microscope with special reference to coal dusts. Conf. of Electron Micros., Delft, 7/49. Proc. The Hague, Nijhoff, 1950. :186-8.
- Shekhter, A. B. & I. I. Tretyakov 3368  
Electron-microscopic study of the surface changes of massive catalysts at work. (in Russian) Bull. Acad. Sci. U.S.S.R., Div. Chem. Sci. S.S.S.R. :397-402. 1953.
- Sheldon, Huntington & Hans Zetterquist 3369  
Internal ultrastructure in granules of white blood cells of the mouse. Bull. Johns Hopkins Hosp. 96:135-9. 4/55.
- Sheldon, H., H. Zetterquist & D. Brandes 3370  
Histochemical reactions for electron microscopy: acid phosphatase. Exptl. Cell Research. 9(3):592-6. 1955.
- Shelyubskiy, V. I. 3371  
Electron microscope study of the structure of etched glass surface. Steklo i. Keram. 11(10):19-22. 1954.
- Shepard, Charles C., Edgar Ribí & Carl Larson 3372  
Electron microscopically revealed structural elements of *Bacterium tularensis* and their in vitro and in vivo role in immunologic reactions. J. Immunol. 75(1):7-14. 7/55.
- Shew, D. I. & A. J. Hodge 3373  
Electron microscope studies on starter cultures and bacteriophages. Australian J. Dairy Technol. 5(3):99-102. 7-9/50.
- Shimadzu, S. 3374  
Observation of  $\text{MoO}_3$  from various directions by means of electron microscope. J. Electron-microscopy. 2(1):54. 1954.
- Shimadzu, Shin-ichi 3375  
A new method to obtain diffraction pattern of the selected area of the specimen. J. Electronmicroscopy. 3(1):51. 1955.
- Shimizu, Ryotaro 3376  
On the morphology of *Bacillus brevis*, especially its spore formation and germination. J. Electronmicroscopy. 1(1):53-6. 1953.
- Shimizu, Tsutomu 3377

Electron microscopy of cultured tissue cells.  
*Acta Schol. Med. Univ. Kyoto.* 29(2):77-82. 1950.

Shimizu, Tsutomu 3378  
Electron microscopy of vaccinia virus in the  
infected tissue cultures. *Acta Schol. Med.*  
*Univ. Kyoto.* 29(3):145-54. 1952.

Shinohara, Chikatomu 3379  
An electron microscopic study of tubercle  
bacilli. I. Structure of granules. *Sci. Repts.*  
*Tohoku Univ.* 6(1):1-13. 1955.

Shinohara, Chikatomu 3380  
An electron microscopic study of tubercle  
bacilli. II. Biological behavior of granules.  
*Sci. Repts. Tohoku Univ.* 6(1):15-39. 1955.

Shinohara, Chikatomu & Kazue Fukushi 3381  
An electron microscopic study of tubercle  
bacilli. III. Behavior of tubercle bacilli  
under treatment with various medicaments. *Sci.*  
*Repts. Research Insts. Tohoku Univ. Ser. C.*  
6(2):207-20. 1955.

Shipley, Daryl W. 3382  
Calculation of spherical aberration for the  
electrostatic electron lens. *Sylvania Tech-*  
*nologist.* 5:87-93. 10/52.

Shipley, Daryl W. 3383  
A method for the measurement of spherical  
aberrations of an electrostatic electron lens.  
*J. Appl. Phys.* 23:1310-6. 12/52.

Shiraki, Yoichi 3384  
Some ceramic properties of sericite. *Yogyo*  
*Kyokai Shi.* 63:633-40. 1955.

Shroff, Frank R., Keith Williamson & W. S.  
Bertaud 3385  
Electron microscope studies of dentine.  
*Oral Surg., Oral Med. Oral Pathol.* 7(7):662-  
70. 6/54.

Shugar, D., A. Jarmolińska & A. Felty-  
nowski 3386  
Some electron microscope observations on  
thermophilic bacteria. *Acta Microbiol. Polon.*  
4(3):177-82. 1955.

Siegel, Benjamin M. 3387  
An intermediate and diffraction lens for the  
RCA electron microscope type EMU. (Abstract,  
Paper #2, Electron Microscope Society of Amer-  
ica Meeting, Philadelphia, Pa., 12/8-10/51.)  
*J. Appl. Phys.* 23:156. 1/52.

Siegel, Benjamin M. 3388  
Morphology of homoionic montmorillonites.  
(Abstract, Paper #29, Electron Microscope Soci-  
ety of America Meeting, Philadelphia, Pa.,  
12/8-10/51.) *J. Appl. Phys.* 23:160. 1/52.

Siegel, Benjamin M., Dwight H. Johnson & H.  
Mark 3389  
Molecular weight investigations of high  
polymers with the electron microscope. *J.*  
*Polymer Sci.* 5(1):111-20. 2/50.

Siegel, Benjamin M. & Kenneth C. Knowlton 3390  
Modification of the RCA EMU electron micro-  
scope for X-ray microscopy. (Abstract, Paper  
#25, Electron Microscope Society of America  
Meeting, University Park, Pa., 10/27-9/55.)  
*J. Appl. Phys.* 26:1395. 1955.

Siegel, Benjamin M., John P. Mernan & Harold  
A. Scheraga 3391

The configuration of native and partially  
polymerized fibrinogen. *Biochim. et Biophys.*  
*Acta.* 11:329-36. 1953.

Siegel, Benjamin, John P. Mernan & Harold  
A. Scheraga 3392  
Correlation between electron microscope and  
flow birefringence observations on native and  
partially polymerized fibrinogen. (Abstract,  
Paper #35, Electron Microscope Society of Amer-  
ica Meeting, Cleveland, Ohio, 11/6-8/52.) *J.*  
*Appl. Phys.* 24:116. 1953.

Siegel, Benjamin M. & Elias Reisman 3393  
A strong-focusing electron lens. (Abstract,  
Paper #A5, Electron Microscope Society of Amer-  
ica Meeting, Highland Park, Ill., 10/14-6/54.)  
*J. Appl. Phys.* 25:1453. 1954.

Siegel, Benjamin M., Ralph E. Simon & Robert  
L. Sproull 3394  
Replication of crystals sensitive to the at-  
mosphere: A study of dispersions of colloidal  
potassium in potassium chloride. (Abstract,  
Paper #A27, Electron Microscope Society of Amer-  
ica Meeting, Highland Park, Ill., 10/14-6/54.)  
*J. Appl. Phys.* 25:1456. 1954.

Signer, R. 3395  
Die Chemie Natürlicher Makromoleküle. *Natur-*  
*wissenschaften.* 42(10):265-70. 1955.

Signer, R., A. Aeby, F. Opderbeck & H.  
Studer 3396  
Aufteilung der Cellulose in Moleküle und  
größere Teilchen bei der Veresterung. *Monatsh.*  
*Chem.* 81(1/2):232-8. 1950.

Signer, R., H. Pfister & H. Studer 3397  
Elektronenmikroskopie der Oberfläche von  
Textilfasern. *Makromol. Chem.* 6:15-24. 1951.

Signer, R., F. von Beust & Ulrich A. Corti 3398  
Elektronenmikroskopische Untersuchung von  
Fischschuppen. *Schweiz S. Hydrol.* 13(1):30-5.  
1951.

Sill, W. H. Jr., W. C. Burger, M. A. Stahmann  
& J. C. Walker 3399  
Electron microscopy of cucumber virus 1.  
*Phytopathology.* 42:420-2. 8/52.

Simpson, J. Arol & Alan Van Bronkhorst 3400  
Modification of electron microscope for elec-  
tron optical shadow method. *Rev. Sci. Instr.*  
21:669-70. 7/50.

Singh, R. N. 3401  
Electron micrographs of the mucilage of the  
blue-green algae. I. *Scytonema pseudogyranense*.  
Rapport Europées Congrès Toeg. Em, Gent,  
4/7-10/54. :63-7.

Sitte, H. 3402  
Ein einfaches Ultramikrotom mit thermischem  
Vorschub. *Naturwissenschaften.* 42(12):367.  
1955.

Sitte, H. 3403  
Ein Lackumhüllungsverfahren für elektronen-  
optische Untersuchungen an anorganischen Sub-  
stanzen. *Naturwissenschaften.* 42(12):366-7.  
1955.

Sitte, H. & P. 3404  
Technik und Methoden der Elektronenmikros-  
kopie. 1. Teil. Die Pyramide. 5(7/8):131-42.  
1955.



SITTE  
#3405

- Sitte, H. & P. 3405  
Technik und Methoden der Elektronenmikroskopie. 2. Teil. Die Pyramide. 6(1):7-15. 1955.
- Sitte, Peter 3406  
Untersuchungen zur submikroskopischen Morphologie der Pollen- und Sporenmembranen. Mikroskopie. 8(9/10):290-9. 1953.
- Sitte, Peter 3407  
Untersuchungen zum feinaufbau verkorkter Zellwände. Rapport Europées Congrès. Toeg. Em, Gent, 4/7-10/54. :83-9.
- Sitte, Peter 3408  
Der Feinaufbau verkorkter Zellwände. Mikroskopie. 10(5/6):178-200. 1955.
- Sjöstrand, Fritiof S. 3409  
Electron-microscopic demonstration of a membrane structure isolated from nerve tissue. Nature. 165:482-3. 3/25/50.
- Sjöstrand, Fritiof 3410  
On multiple membrane structures in the retinal rods of the guinea pig eye and in nerve tissue. Conf. of Electron Microsc., Delft, 7/49. Proc. The Hague, Nijhoff, 1950. :144-9.
- Sjöstrand, Fritiof 3411  
A method for making ultra-thin tissue sections for electron microscopy at high resolution. Nature. 168:646-7. 10/13/51.
- Sjöstrand, Fritiof S. 3412  
Electron microscopy of mitochondria and cytoplasmic double membranes. Nature. 171:30-2. 1/3/53.
- Sjöstrand, F. S. 3413  
The lamellated structure of the nerve myelin sheath as revealed by high resolution electron microscopy. Experientia. 9(2):68-9. 1953.
- Sjöstrand, F. S. 3414  
A new microtome for ultrathin sectioning for high resolution electron microscopy. Experientia. 9(3):114-5. 1953.
- Sjöstrand, Fritiof S. 3415  
The organization of the cytoplasm of the excretory cells of the mouse pancreas. (Abstract, Paper #38, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:116. 1953.
- Sjöstrand, Fritiof S. 3416  
Survey of the electron microscopic research during the last year at the Department of Anatomy, Karolinska Institutet, Stockholm, Sweden. (Abstract, Paper #66, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1423. 11/53.
- Sjöstrand, Fritiof S. 3417  
The ultrastructural organization of retinal rods and cones. (Abstract, Paper #45, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:117. 1953.
- Sjöstrand, Fritiof S. 3418  
The ultrastructure of the inner segments of the retinal rods of the guinea pig eye as revealed by electron microscopy. J. Cellular Comp. Physiol. 42(1):45-70. 1953.

SJÖSTRAND  
#3432

- Sjöstrand, F. S. 3419  
Ultrastructure of outer segments of rods and cones of eye as revealed by electron microscope. J. Cellular Comp. Physiol. 42:15-44. 1953.
- Sjöstrand, Fritiof S. 3420  
The ultrastructure of the nerve myelin sheaths. (Abstract, Paper #47, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:117-8. 1953.
- Sjöstrand, Fritiof S. 3421  
The ultrastructure of the retinal rod synapses of the guinea pig eye. (Abstract, Paper #57, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1422. 11/53.
- Sjöstrand, F. S. 3422  
Recent development of electron microscopy as applied to the study of tissue cell ultrastructure. Rapport Europées Congrès. Toeg. Em, Gent, 4/7-10/54. :69-81.
- Sjöstrand, Fritiof S. 3423  
Die routinemässige Herstellung von ultradünnen (ca. 200Å) Gewebeschnitten für elektronenmikroskopische Untersuchungen der Gewebszellen bei hoher Auflösung. Z. wiss. Mikroskop. 62(2):65-86. 1954.
- Sjöstrand, Fritiof S. 3424  
"Unsichtbar" dünne Schnitte. Moderne Schneiderverfahren für die Elektronenmikroskopie. Umschau Wiss. u. Tech. 24:751-4. 1954.
- Sjöstrand, F. S. 3425  
The importance of high resolution electron microscopy in tissue cell ultrastructure research. Sci. Tools. 2(3/4):25-31. 11/55.
- Sjöstrand, F. S. 3426  
Ultra microtome accessories. Sci. Tools. 2:32-4. 11/55.
- Sjöstrand, Fritiof S. 3427  
The ultrastructure of mitochondria. Symposium on Fine Structure of Cells, Held at 8th Cong. of Cell Biology, Leyden, 1954. Ser. B. 21:16-30. 1955.
- Sjöstrand, F. S. 3428  
The ultrastructure of the ground substance of cytoplasm. Symposium on Fine Structure of Cells, Held at 8th Cong. of Cell Biology, Leyden, 1954. Ser. B. 21:222-8. 1955.
- Sjöstrand, F. S. & Ebba Andersson 3429  
Electron microscopy of the intercalated discs of cardiac muscle tissue. Experientia. 10:369-70. 1954.
- Sjöstrand, F. S. & V. Hanzon 3430  
Electron microscopy of the Golgi apparatus of the exocrine pancreas cells. Experientia. 10:367-8. 1954.
- Sjöstrand, F. S. & V. Hanzon 3431  
Membrane structures of cytoplasm and mitochondria in exocrine cells of mouse pancreas as revealed by high resolution electron microscopy. Exptl. Cell Research. 7:393-414. 1954.
- Sjöstrand, F. S. & V. Hanzon 3432  
Ultrastructure of Golgi apparatus of exocrine cells of mouse pancreas. Exptl. Cell Research. 7:415-29. 1954.

- Sjöstrand, Fritiof S. & Johannes Rhodin 3433  
The ultrastructure of the proximal convoluted tubules of the mouse kidney. (Abstract, Paper #39, Electron Microscope Society of America, Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:116. 1953.
- Sjöstrand, F. S. & J. Rhodin 3434  
The ultrastructure of the proximal convoluted tubules of the mouse kidney as revealed by high resolution electron microscopy. Exptl. Cell Research. 4(2):426-56. 1953.
- Skotland, C. B. 3435  
Aphid transmission of the Wisconsin pea streak virus. (Abstract) Phytopathology. 43:484. 1953.
- Skotland, C. B., D. J. Hagedorn & Mark A. Stahmann 3436  
Electron microscopy of tobacco mosaic virus in situ. Phytopathology. 45(11):603-7. 1955.
- Skrobe, H. 3437  
Zur Präparation des *Streptococcus cinereus* für die elektronenmikroskopische Betrachtung. Wien. klin. Wochschr. 67(51):983. 1955.
- Skrobe, H. & H. Spitz 3438  
Über Kleinlebewesen im Jodquellwasser von Bad Hall und ihre Funktion bei der Bildung von freiem Jod. Wien. klin. Wochschr. 67(33):601-5. 1955.
- Slatutterback, David B. 3439  
Electron microscopic study of small cytoplasmic particles (microsomes). (Abstract, Paper #38, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:163. 1/52.
- Slatutterback, D. B. 3440  
Electron microscopic studies of small cytoplasmic particles (microsomes). Exptl. Cell Research. 5(1):173-86. 1953.
- Smellie, R. M. S., W. M. McIndoe, R. Logan, J. N. Davidson & I. M. Dawson 3441  
Phosphorus compounds in the cell. 4. The incorporation of radioactive phosphorus into liver cell fractions. Biochem. J. London. 54(3):280-6. 1953.
- Smith, Andrew G. 3442  
Electron and light microscopic studies of bacterial nuclei. II. An improved staining technique for nuclear chromatin of bacterial cells. J. Bacteriol. 59:575-87. 1950.
- Smith, H. M. & S. Hansen 3443  
Shadow of an electron beam. J. Appl. Phys. 23:1054-5. 9/52.
- Smith, Isabel W. 3444  
Flagellation and motility in *Aerobacter cloacae* and *Escherichia coli*. Biochim. et Biophys. Acta. 15:20-4. 9/54.
- Smith, Isabel W., J. F. Wilkinson & J. P. Duguid 3445  
Volutin production in *Aerobacter aerogenes* due to nutrient imbalance. J. Bacteriol. 68(4):450-63. 1954.
- Smith, K. C. A. & C. W. Oatley 3446  
The scanning electron microscope and its fields of application. Brit. J. Appl. Phys. 6:391-9. 1955.

- Smith, Kenneth M. 3447  
The polyhedral diseases of insects. Endeavour. 10(40):194-9. 10/51.
- Smith, K. M. 3448  
A note on the electron microscopy of the turnip yellow mosaic virus. Parasitology. 43:191-2. 11/3-4/53.
- Smith, Kenneth M. 3449  
A note on the observation of viruses in the cells of infected plants. Biochim. et Biophys. Acta. 10:210-4. 1953.
- Smith, K. M. 3450  
The polyhedral viruses. Science Progr. 163:411-7. 7/53.
- Smith, Kenneth M. 3451  
Some aspects of the behaviour of certain viruses in their hosts, and of their development in the cell. Proc. Roy. Soc. London. 142B:196-207. 1954.
- Smith, Kenneth M. 3452  
Viruses and the control of insect pests. Discovery. 455-8. 11/54.
- Smith, Kenneth M. 3453  
What is a virus? Proc. Roy. Inst. Gt. Brit. 35(161):1-16. 1954. Nature. 175:12. 1/1/55.
- Smith, Kenneth M. 3454  
Intranuclear changes in the polyhedrosis of *Tipula paludosa* (Diptera). Nature. 176:255. 8/6/55.
- Smith, Kenneth M. & Ralph W. G. Wyckoff 3455  
Structure within polyhedra associated with insect virus diseases. Nature. 166:861-2. 11/18/50.
- Smith, K. M. & R. W. G. Wyckoff 3456  
Electron microscopy of insect viruses. Research. 4:148-54. 1951.
- Smith, Kenneth M., R. W. G. Wyckoff & N. Xeros 3457  
Polyhedral virus diseases affecting the larvae of the privet hawk moth (*Sphinx ligustri*). Parasitology. 42(3/4):287-9. 1/53.
- Smith, Kenneth M. & N. Xeros 3458  
Cross-inoculation studies with polyhedral viruses. Interaction of Viruses and Cells, Symposium. 6th Int. Cong. Microbiol., Rome, 9/53. :81-96. Rome, Ist. Super. Sanità, 1953.
- Smith, Kenneth M. & N. Xeros 3459  
Development of virus in the cell nucleus. Nature. 172:670. 10/10/53.
- Smith, Kenneth M. & N. Xeros 3460  
Studies on the cross-transmission of polyhedral viruses: Experiments with a new virus from *Pyrausta cardui*, the Painted Lady butterfly. Parasitology. 43:178-85. 5/53.
- Smith, Kenneth M. & N. Xeros 3461  
A comparative study of different types of viruses and their capsules in the polyhedroses and granuloses of insects. Parasitology. 44(3/4):400-6. 11/54.
- Smith, K. M. & N. Xeros 3462  
Electron and light microscope studies of the development of the virus rods of insect polyhedroses. Parasitology. 44(1/2):71-80. 5/54.



SMITH  
#3463

- Smith, K. M. & N. Xeros 3463  
An unusual virus disease of a dipterous larva.  
Nature. 173:866. 5/8/54.
- Smith, N. D. P. 3464  
The electron microscope in the study of  
paints. Trans. Inst. Metal Finishing, Ad-  
vance copy No. 12. 10 p. 1955.
- Smith, Thomas D. 3465  
Amorphous carbon. J. Chem. Soc. 167:923-7.  
3/52.
- Smith, W. S. & W. G. Kirchgessner 3466  
A method of preparing replicas for electron  
microscopic examinations. J. Appl. Phys. 24:  
662. 5/53.
- Smoianov, P. A. 3467  
Methodology of determining the resolving  
power of the electron microscope. (in Russian)  
Zhurn. Tekh. Fiz. 24:1851-8. 1954.
- Snellman, Olle & Bertil Gelotte 3468  
A reaction between a deaminase and heart  
actin, and inhibition of the effect with  
cardiac glycoside. Nature. 165:604. 1950.
- Sognnaes, Reidar F., David B. Scott, Marie J.  
Ussing & Ralph W. G. Wyckoff 3469  
Electron microscopy of the enamel of teeth  
in various stages of development. J. Dental  
Research. 31:85-93. 2/52.
- Souza Santos, P., H. Souza Santos, G. A. Ed-  
wards, A. R. Hoge & P. Sawaya 3470  
A contribution to the knowledge of the fine  
structure and chemical properties of animal  
connective tissue fibrils. Mem. Inst. Butan-  
tan, Sao Paulo. 27:1-39. 1955.
- Souza Santos, P., A. Vallejo-Freire & H. L.  
Souza Santos 3471  
Electron microscope studies on the aging of  
amorphous colloidal aluminum hydroxide.  
Kolloid-Z. 133:101-7. 1953.
- Spicer, Samuel S. & G. Rozsa 3472  
An electron microscope study of contractile  
muscle proteins. J. Biol. Chem. 201:639-44.  
4/53.
- Sponsler, O. L. & Jean D. Bath 3473  
A view of submicroscopic components of proto-  
plasm as revealed by the electron microscope.  
Protoplasma. 42(1):69-76. 1953.
- Sponsler, O. L. & Jean D. Bath 3474  
Some features of *Nitella* chloroplasts as  
revealed by the electron microscope. Proto-  
plasma. 44(3):332-5. 1954.
- Sponsler, O. L. & J. D. Bath 3475  
Some micellar components of *Physarum poly-  
cephalum* as revealed by the electron microscope.  
Protoplasma. 44(2):259-65. 1954.
- Sprau, Fritz 3476  
Elektronenoptische Darstellung des Blattroll-  
virus der Kartoffel mit einem kurzen Überblick  
über die Elektronenmikroskopie in der Virus-  
forschung. Z. Pflanzenbau u. Pflanzenschutz.  
3(5):213-21. 1952.
- Sprau, F. 3477  
Elektronenoptische untersuchungen über das  
Blattrollvirus der Kartoffel. Congr. intern.  
botan., Paris, 1954. 8(18/20):210-3.

STEIGERWALD  
#3491

- Stahmann, Mark. A., D. J. Hagedorn & W. C.  
Burger 3478  
The electron micrography of the Wisconsin pea-  
streak virus. Phytopathology. 40:999-1006.  
11/50.
- Stahmann, Mark A., D. J. Hagedorn, W. C.  
Burger & Paul Kaesberg 3479  
The electron micrography of the Wisconsin pea-  
streak virus. (Abstract, Paper #25, Electron  
Microscope Society of America Meeting, Detroit,  
Michigan, 9/14-6/50.) J. Appl. Phys. 22:113.  
1951.
- Stahmann, Mark A. & Paul Kaesberg 3480  
Concepts and problems concerning the electron  
microscopy of plant viruses. Phytopathology.  
45:187-95. 1955.
- Stahmann, Mark A. & Paul Kaesberg 3480  
Concepts and problems concerning the electron  
microscopy of plant viruses. Phytopathology.  
45:187-95. 1955.
- Starr, Mortimer P. & Robley C. Williams 3481  
Helical fine structure of flagella of a  
motile diphtheroid. J. Bacteriol. 63(6):701-6.  
1952.
- Staub, A., L. Sinn & Otto K. Behrens 3482  
Purification and crystallization of glucagon.  
J. Biol. Chem. 214(2):619-32. 6/55.
- Stecher, Helmut 3483  
Über das Flächwachstum der pflanzlichen  
Zellwände. Mikroskopie. 7:30-6. 1952.
- Steere, Russell L. 3484  
Plant virus growth curves as determined by  
use of the electron microscope. (Abstract,  
Paper #35, Electron Microscope Society of Amer-  
ica Meeting, Washington, D. C., 10/6-8/49.)  
J. Appl. Phys. 21:70. 1950.
- Steere, Russell L. 3485  
Increment curves based on counts of virus  
particles in plant juices prepared by a new and  
simplified procedure for electron microscopy.  
(Abstract) Phytopathology. 41:33. 1951.
- Steere, Russell L. 3486  
Virus increment curves obtained from counts  
of particles in clarified plant juice. Am. J.  
Botany. 39:211-20. 3/52.
- Steere, Russell L. & Robley C. Williams 3487  
Identification of crystalline inclusion bodies  
extracted intact from plant cells infected with  
tobacco mosaic virus. Am. J. Botany. 40:81-4.  
2/53.
- Steffen, Kurt & Friedrich Walter 3488  
Licht- und Elektronenoptische Untersuchungen  
über den Feinbau des Chromatophors von  
*Ankistrodesmus braunii* (Nägeli) Brunnthaler.  
Planta. 45:395-404. 1955.
- Steffen, K. & Friedrich Walter 3489  
Die submikroskopische Struktur der Chromo-  
plasten. Naturwissenschaften. 42(13):395-6.  
1955.
- Steigerwald, Karl Heinz 3490  
Die Ionenemission der "Glühkathode". Optik.  
7:255. 10-12/50.
- Steigerwald, Karl Heinz 3491  
Eine positive Emission an der Glühkathode.  
Z. angew. Phys. 2:491-3. 1950.

- Steiner, Robert F. 3492  
The reversible depolymerization of fibrin.  
Science. 114(2966):460. 11/2/51.
- Steinhaus, Edward A. 3493  
Report on diagnoses of diseased insects  
1944-1950. Hilgardia. 20(22):629-78. 5/51.
- Steinhaus, Edward A. 3494  
Taxonomy of insect viruses. Ann. N. Y. Acad.  
Sci. 56(3):517-37. 1953.
- Steinhaus, Edward A. & Kenneth M. Hughes 3495  
A granulosis of the western grape leaf  
skeletizer. J. Econ. Entomol. 45(4):744.  
1952.
- Steinmann, E. 3496  
Contribution to the structure of granular  
chloroplasts. Experientia. 8(8):300. 1952.
- Steinmann, Erwin 3497  
An electron microscope study of the lamellar  
structure of chloroplasts. Exptl. Cell Re-  
search. 3:367-72. 6/52.
- Steinmann, E. & F. S. Sjöstrand 3498  
The ultrastructure of chloroplasts. Exptl.  
Cell Research. 8:15-23. 1955.
- Stent, Gunther S. 3499  
The multiplication of bacterial viruses.  
Sci. American. 188:36-9. 5/53.
- Stich, Hans 3500  
Synthese und Abbau der Polyphosphate von  
Acetabularia nach autoradiographischen Unter-  
suchungen des  $^{32}\text{P}$ -Stoffwechsels. Z. Natur-  
forsch. 10b(5):281-4. 1955.
- Stoeckenius, Walther & Dietrich Peters 3501  
Untersuchungen am Virus der Variola-Vaccine.  
IV. Die Morphologie des "Innenkörpers". Z.  
Naturforsch. 10b(2):77-80. 2/55.
- Stoianova, I. G. & A. I. Frimer 3502  
Investigation of the mechanism of image  
formation in the electron microscope. (in  
Russian) Doklady Akad. Nauk, S.S.S.R. 94:  
459-62. 1954.
- Stokely, J. M. & S. R. Calish 3503  
Correlation of laboratory tests with field  
observations of grease fluidity. Inst. Spokes-  
man, Natl. Lubricating Grease Inst. 19(9):  
12-5. 12/55.
- Stoker, M. G. P. 3504  
Q fever in Great Britain. The causative  
agent. Lancet. 259:616-20. 11/25/50.
- Stokes, J. L. 3505  
Studies on the filamentous sheathed iron  
bacterium Sphaerotilus natans. J. Bacteriol.  
67:278-91. 3/54.
- Strauss, Maurice J., Henry Bunting & Joseph  
L. Melnick 3506  
Virus-like particles and inclusion bodies  
in skin papillomas. J. Invest. Dermatol. 15:  
433-43. 12/50.
- Stromberg, Robert R. & Max Swerdlow 3507  
Electron microscopy of synthetic elastomer  
lattices. (Abstract, Paper #16, Electron  
Microscope Society of America Meeting, Cleve-  
land, Ohio, 11/6-8/52.) J. Appl. Phys. 24:  
113. 1953.
- Stromberg, R. R. & M. Swerdlow 3508  
Pores in collagen and leather. J. Am. Leather  
Chemists Assoc. 50:336-54. 7/55.
- Stromberg, Robert R., Max Swerdlow & John  
Mandel 3509  
Electron microscopy of synthetic elastomer  
lattices. J. Research Natl. Bur. Standards. 50:  
299-309. 6/53.
- Strunge, T., D. Gigante & W. Bernhard 3510  
Hémopathie de type leucémique chez la larve  
de Drosophila, étudiée au microscope ordinaire,  
au microscope électronique et au microscope à  
contraste de phase. 3rd Cong. Soc. Intern.  
Européenne d'Hématologie, Rome, 10/3-6/51.  
Compt. rend. :607-17.
- Stuart, Donald C. Jr. 3511  
Preliminary experiments on tryptic digestion  
of bacterial cells. (Abstract, Paper #65, Elec-  
tron Microscope Society of America Meeting,  
Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys.  
24:1423. 11/53.
- Stuart, H. A. 3512  
Die Textur von kristallinen Hochpolymeren.  
Endlicher Schmelzbereich und thermische Vorge-  
schichte. Kunststoffe. 44(7):285-9. 1954.
- Stuart, H. & B. Kahle 3513  
Beobachtungen über die morphologische Struk-  
tur in Hochpolymeren. J. Polymer Sci. 18(87):  
143-7. 1955.
- Stubbe, Wilfried & Dietrich von Wettstein 3514  
Zur struktur erblich verschiedener Chloro-  
plasten von Oenothera. Protoplasma. 45(2):  
241-50. 1955.
- Studer, H. 3515  
L'acide tungstique blanc et sa transformation  
en acide jaune. 1st Int. Cong. Electron Micros.,  
Paris, 9/50. Proc. :545-52. Paris, Ed. Rev.  
Optique, 1953.
- Sudo, Toshio 3516  
Particle shape of a certain clay of hydrated  
halloysite, as revealed by the electron micro-  
scope. Mineralog. J. Sapporo. 1(1):66-8. 1953.
- Sudo, Toshio 3517  
Clay mineralogical aspects of the alteration  
of volcanic glass in Japan. Clay Minerals Bull.  
2(11):96-106. 1954.
- Sudo, Toshio 3518  
Iron-rich saponite found from tertiary iron  
sand beds of Japan. (Reexamination on "Lember-  
gite"). J. Geol. Soc. Japan. 60:18-27. 1954.
- Sudo, Toshio 3519  
Long spacing at about 30 Å confirmed from  
certain clays from Japan. Clay Minerals Bull.  
2(12):193-203. 1954.
- Sudo, T. & H. Hayashi. 3520  
New types of clay minerals with long spacings  
at about 30 Å found from the altered area devel-  
oped around certain ore bodies of the Hanaoka  
Mine, Akita Prefecture. Sci. Repts. Tokyo  
Kyōiku Daigaku. 25C(3):281-94. 1955.
- Sueyasu, Taneyuki, Toshio Esaki & Yoshio  
Takeshige 3521  
Electron microscopic examination of elastic  
fibers. Kurume Med. J. 2(2):130-5. 1955.



- Sugata, Eizi & Yoshio Nishitani 3522  
The mechanical strength of the thin films  
for the Lenard's window. Technol. Repts. Osaka  
Univ. 4(101):83-8. 1954.
- Sugata, Eizi, Yoshio Nishitani & Hiroshi  
Hamada 3523  
The effects of pole piece saturation on the  
constants of magnetic lenses. J. Electron-  
microscopy. 3(1):9-14. 1955.
- Sugata, Eizi, Yoshio Nishitani, Kazuo Ito,  
Tsugio Ito & Yaziro Inoue 3524  
Measurements of field distribution in mag-  
netic lenses by electron-image rotation. J.  
Electronmicroscopy. 1(1):1-6. 1953.
- Sugata, Eizi & Masahiko Tateishi 3525  
Electron microscope provided with an inter-  
mediate plate chamber. Technol. Repts. Osaka  
Univ. 4(102):89-98. 1/12/54.
- Suhrmann, Rudolph 3526  
Über den Einfluss der Kristallstruktur auf  
die Adsorption von Fremdmolekeln. Natur-  
wissenschaften. 37:329-33. 1950.
- Suito, Eiji 3527  
Applications of electron microscope to colloid  
science. (in Japanese) In Denshi Kembikyo,  
K. Sasakawa, comp. :202-23. Kyoto, Honda  
Shoten, 1951. 430 p.
- Suito, Eiji 3528  
Electron microscopic observation of var-  
ious fine powders for industrial use. (in  
Japanese) Bull. Inst. Chem. Research, Kyoto  
Univ. 31(2):69-84. 3/53.
- Suito, Eiji 3529  
The role of electron microscopy in chemical  
industry. (in Japanese) Kagaku to Kōgyō.  
6:10-8. 4/53.
- Suito, Eiji 3530  
Colloid and powder. Atlas of electron micro-  
graphs, Vol. 2; with bibliography of electron  
microscopy. Tokyo, Honda Publishing Co., 1954.  
27 p. 63 plates.
- Suito, Eiji 3531  
The use of the electron microscope in the  
rubber industry. (in Japanese) Nippon Gomu  
Kyōkaishi. 28(3):1-8. 1955.
- Suito, Eiji & Arakawa Masafumi 3532  
The electron microscope image of thin  
crystal with a sharp outline. (in Japanese)  
Kagaku. 21:32. 1/51.
- Suito, Eiji & Masafumi Arakawa 3533  
Observation on the dispersion state of var-  
ious fillers in the vulcanized rubber by  
electron microscope. Bull. Inst. Chem. Re-  
search, Kyoto Univ. 29:77-8. 6/52.
- Suito, E. & M. Arakawa 3534  
Observation on the dispersion state of var-  
ious fillers in the vulcanized rubber by elec-  
tron microscope. Proc. Japan Acad. 28(1):  
48-53. 1952.
- Suito, Eiji, Masafumi Arakawa & Hiroshi  
Hasegawa 3535  
Studies on filler for rubber by electron  
microscope. 1. Shape and size of various  
fillers. (in Japanese) Nippon Gomu Kyōkaishi.  
26:216-21. 4/53.
- Suito, Eiji, Masafumi Arakawa, Hiroshi  
Hasegawa & Yonamasa Furuzawa 3536  
Studies on filler for rubber by electron  
microscope. 2. Dispersion state of various  
fillers in the vulcanized rubber. (in Japanese)  
Nippon Gomu Kyōkaishi. 26:453-8. 8/53.
- Suito, Eiji, M. Arakawa, Hiroshi Hasegawa &  
Yonamasa Furuzawa 3537  
An electron microscopic study of rubber.  
(in Japanese) Nippon Gomu Kyōkaishi. 28(9):  
1-5. 1955.
- Suito, Eiji, Masafumi Arakawa & Natsu  
Uyeda 3538  
Studies on the ultrafine powders for indus-  
trial use by means of electron microscope and  
electron diffraction. Bull. Inst. Chem. Re-  
search, Kyoto Univ. 24:74. 3/31/51.
- Suito, Eiji & Torao Fujita 3539  
Colloid chemical studies on the formation  
of ultrafine powder. 3. Carbonation of aqueous  
suspension containing magnesium oxides or hy-  
drates. Bull. Inst. Chem. Research, Kyoto  
Univ. 26:80. 9/51.
- Suito, Eiji & Kazuyoshi Takiyama 3540  
Morphology of barium sulfate precipitate by  
electron microscope. Proc. Japan Acad. 28(3):  
133-8. 1952.
- Suito, Eiji & Kazuyoshi Takiyama 3541  
Formation and aging of precipitates. 3.  
Electron microscopic investigation of barium  
sulfate precipitates in alcohol solution.  
Bull. Inst. Chem. Research, Kyoto Univ. 31:  
213-4. 3/53.
- Suito, Eiji & Kazuyoshi Takiyama 3542  
Formation and aging of precipitates. 4. Ob-  
servation of the gel and the gelatinous pre-  
cipitate by electron microscope. Bull. Inst.  
Chem. Research, Kyoto Univ. 31(5):363-4. 1953.
- Suito, E. & K. Takiyama 3543  
Studies on the formation and aging of pre-  
cipitates. 1. Electron microscopic investiga-  
tion of the formation of barium sulfate pre-  
cipitate. Bull. Inst. Chem. Research, Kyoto  
Univ. 31:48. 1/53.
- Suito, Eiji & Kazuyoshi Takiyama 3544  
Electron microscopy and diffraction studies  
of vanadium pentoxide sols. Proc. Japan Acad.  
30(8):752-7. 1954.
- Suito, Eiji & Kazuyoshi Takiyama 3545  
Formation and aging of precipitates. I. Elec-  
tron microscopic studies on the formation of  
barium sulfate precipitate. Bull. Chem. Soc.  
Japan. 27(3):121-5. 1954. II. Electron  
microscopic studies of the aging of barium  
sulfate precipitate. Ibid. 27(3):123-5. 1954.
- Suito, Eiji & Kazuyoshi Takiyama 3546  
Formation and aging of precipitates. III.  
Electron microscopic studies on barium sulfate  
precipitates in aqueous alcohol. Bull. Chem.  
Soc. Japan. 28(4):305-7. 1955.
- Suito, E., K. Takiyama & M. Takahashi 3547  
Formation of ultrafine powders. IV. Forma-  
tion of barium carbonate by the carbonation  
method. Bull. Inst. Chem. Research, Kyoto  
Univ. 31(5):372-4. 1953.
- Suito, Eiji, Kazuyoshi Takiyama & Natsu  
Uyeda 3548

Colloid morphological and crystalline studies of "Bikini dust" fallen on the No. 5 Fukuryu Maru by electron microscopy and diffraction methods. Bull. Inst. Chem. Research, Kyoto Univ. Suppl. :18-28. 11/54.

Suito, Eiji & Natsu Uyeda 3549  
The electron microscopy of triangular gold colloidal particles - electron diffraction. (in Japanese) Kagaku. 21:598-9. 11/51.

Suito, E. & Natsu Uyeda 3550  
Absorption spectra and electron microgram of gold sol. Bull. Inst. Chem. Research, Kyoto Univ. 30:40-1. 9/52.

Suito, E. & N. Uyeda 3551  
Studies on micro-crystals by electron micro-diffraction. Bull. Inst. Chem. Research, Kyoto Univ. 29:75. 6/52.

Suito, Eiji & Natsu Uyeda 3552  
Studies on the shadow microscope as an attachment of electron microscope. Bull. Inst. Chem. Research, Kyoto Univ. 29:76. 6/52.

Suito, Eiji & Natsu Uyeda 3553  
Crystal structure analysis of the "Trigon" particles of colloidal gold by a three-stage electron microscope. Bull. Inst. Chem. Research, Kyoto Univ. 31(5):359-60. 1953.

Suito, Eiji & Natsu Uyeda 3554  
Electron microscope and diffraction study on single micro crystals of colloidal gold. J. Electronmicroscopy. 1(1):33-6. 1953.

Suito, E. & N. Uyeda 3555  
Studies of organic pigments by electron microscope. Bull. Inst. Chem. Research, Kyoto Univ. 31:53-4. 1/53.

Suito, Eiji & Natsu Uyeda 3556  
Study of single micro-crystals of gold by a three-stage electron microscope. Proc. Japan Acad. 29(7):324-30. 1953.

Suito, Eiji & Natsu Uyeda 3557  
Study of the thickness of single micro-crystals of gold by electron diffraction method. Proc. Japan Acad. 29(7):331-6. 1953.

Suito, Eiji & Natsu Uyeda 3558  
Thickness evaluation of the "Trigon" particles of gold sol by the electron diffraction method. Bull. Inst. Chem. Research, Kyoto Univ. 31(5):361-3. 1953.

Suito, Eiji & Natsu Uyeda 3559  
On the characteristic properties of the three-stage electron microscope SM-C3 as an electron diffraction camera. Bull. Inst. Chem. Research, Kyoto Univ. 32(2):85-7. 1954.

Suito, E., N. Uyeda, M. Arakawa & K. Takiyama 3560  
Electron microscopic investigation on gold sol particle, especially on the "Trigon" particles. Bull. Inst. Chem. Research, Kyoto Univ. 26:78-9. 9/51.

Suito, Eiji, Natsu Uyeda & Yoshiaki Sasaki 3561  
Studies on microcrystals by electron microscope and electron diffraction. III. On the colloidal particles formed by ultrasonic stripping method. Bull. Inst. Chem. Research, Kyoto Univ. 31:51-2. 1953.

Suito, Eiji, Natsu Uyeda & Hiroshi Shibamura 3562

The transformation of Cu-phthalocyanine crystal; electron microscope and X-ray diffraction study. Bull. Inst. Chem. Research, Kyoto Univ. 32(2):83-5. 1954.

Summers, Selby E. 3563  
A method of preparing tungsten points for the field emission microscope. (Abstract, Paper #25, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:114. 1953.

Summers, Selby E. 3564  
A new pumping system for the electron diffraction instrument. (Abstract, Paper #12, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1415. 11/53.

Summers, Selby E. 3565  
A new shadow X-ray microscope. (Abstract, Paper #A13, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1455. 1954.

Sundharagiati, Bundham & Claude-Starr Wright 3566  
A clinical and experimental study of the erythrocyte ultrastructure membrane with the electron microscope. J. Clin. Invest. 32(10):979-90. 10/53.

Surkov, V., S. Barkan & L. Repina 3567  
Constitutional elements of milk and other dairy products as viewed by an electron microscope. (in Russian) Moloch. Promysh. 16(4):30-1. 1955.

Sushkin, N. G., A. G. Plakhov, U. M. Kushnir, P. V. Zaitsev, A. R. Bertin & N. P. Levkin 3568  
The universal electron microscope for 100 kv (UEM-100). (in Russian) Izvest. Akad. Nauk S.S.S.R. 15:285-93. 1951.

Suzuki, I. K. & U. Kitasaki 3569  
Mineralogical studies on the red clays from the western Pacific Ocean, east of the Bonin Islands. Studies on the clay mineral fractions of the recent marine sediments. I. Japan J. Geol. and Geography. 24:171-80. 1954.

Suzuki, Sho 3570  
Elektronenmikroskopische Untersuchungen am Rauch von CdCl<sub>2</sub> und CdBr<sub>2</sub>. Kolloid-Z. 143(2):103-4. 1955.

Swain, R. H. A. 3571  
Electron microscopic studies of the morphology of pathogenic spirochaetes. J. Pathol. Bacteriol. 69:117-28. 1955.

Swain, R. H. A. 3572  
A microscopical study of the reproduction of psittacosis virus. Brit. J. Exptl. Pathol. 36(5):507-13. 10/55.

Swerdlow, Max 3573  
Electron microscopy. Anal. Chem. 26:34-42. 1/54.

Swerdlow, Max & F. A. Heckman 3574  
Nucleation in the hydration of tricalcium silicate. (Abstract, Paper #B4, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1457. 1954.

Swerdlow, Max & Robert R. Stromberg 3575  
Pores in collagen and leather. (Abstract,



Paper #1 4, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1465. 1954.

Swerdlow, Max & R. R. Stromberg 3576  
Collagen pores determined by electron microscopy. J. Research Natl. Bur. Standards. 54(2):83-90. 2/55.

Swigart, Richard H. & Dennis J. Kane 3577  
Electron microscopic observations of pulmonary alveoli. Anat. Record. 118(1):57-71. 1/54.

Swineford, Ada & Norman Plummer 3578  
Electron microscopy of fired glaze surfaces. Univ. Kansas Publ., State Geol. Survey Kansas, Bull. 102, Pts. 4 & 5.

Syrrist, Arvid & Gösta Gustafson 3579  
A contribution to the technique of the electron microscopy of dentine. Odont. Tidskr. 59(6):500-13. 1951.

Szawlewicz, Stanley A. 3580  
Electron microscope and electron diffraction study of optically transparent electrically conducting coatings on glass and acrylic plastic. U.S. Air Force, Wright Air Development Center. WADC technical report 53-44. 3/53. 20 p.

Tabor, Joan H. 3581  
Electron microscopy. Med. Biol. Illus. Lond. 1:38-43. 1/51.

Tachibana, Taro, Kiyoshi Inokuchi & Teiko Inokuchi 3582  
Electron microscopic observation of monolayers of synthetic linear polymers. Nature. 176:1117-9. 1955.

Tadano, Bunya 3583  
Progress of electron microscopes in Hitachi. Hitachi Review. :19-30. 8/53.

Tadano, Bunya, Yoneichiro Sakaki, Hiroshi Tomita, Susumu Maruse, Toshiyuki Takahashi & Koichi Hara 3584  
Design and performance of a belt generator as a high voltage source of electron microscope. Theoretical Physics (Japan). 23(6):256-62. 1954.

Tajima, Mataichi, Akira Fukami & Haruo Yotsumoto 3585  
Important photographic problems in the electron microscope. J. Electronmicroscopy. 3(2):20-5. 1953.

Takagi, Riitsu 3586  
On the chromic oxide. I. On the particles of commercial chromic oxides. II. Heating of chromium trioxide and others. (in Japanese) J. Mech. Lab., Tokyo. 4:201-2. 1950.

Takagi, Riitsu 3587  
On the particles of Japanese carbon blacks. J. Mech. Lab., Tokyo. 4:107-11. 1950.

Takagi, Riitsu 3588  
Electron microscope and diffraction studies of chromic oxides. J. Phys. Soc. Japan. 6(5):350-1. 9-10/51.

Takagi, Riitsu 3589  
An electron microscope and diffraction studies of metallic smoke. J. Phys. Soc. Japan.

6(3):204. 5-6/51. J. Mech. Lab., Tokyo. 5:107-10. 1951.

Takagi, R. 3590  
Electron microscope observation of polyvinyl chloride. J. Mech. Lab., Tokyo. 5:357-9. 1951.

Takagi, Riitsu 3591  
Transformation of MoO<sub>3</sub> crystal by electron irradiation. J. Mech. Lab., Tokyo. 6(3):131-6. 1952.

Takagi, Riitsu 3592  
Morphology of ZnO crystals formed on the surface of brass or zinc at high temperatures. J. Phys. Soc. Japan. 9(2):162-8. 3-4/54.

Takagi, Riitsu 3593  
Needle crystals on a tungsten filament. J. Electronmicroscopy. 3(1):18-20. 1955.

Takagi, Riitsu & Yoshiko Shiga 3594  
On the chromic oxide. III. Study on the lapping ability. J. Mech. Lab., Tokyo. 5(1):49-52. 1951.

Takahashi, Noboru 3595  
Sur la structure des films de cuivre obtenus par dépôt électrolytique sur un monocristal de laiton 8 poli électrolytiquement. Compt. rend. acad. sci. 234:1619-21. 4/16/52.

Takahashi, Noboru & Toshio Asaeda 3596  
Studies on mechanically finished metallic surfaces by electron diffraction and electron microscopy (I). J. Sci. Research Inst., Tokyo. 45:23-30. 7/51.

Takahashi, Noboru & Toshio Asaeda 3597  
Étude par microscopie électronique du phénomène de polissage mécanique au cours de la fabrication de la soie artificielle. Bull. inst. textile France. 35:75-81. 10/52.

Takahashi, Noboru & Charles Fert 3598  
Application de la microdiffraction électronique à l'étude des transformations de phases des alliages Al-Cu. Compt. rend. acad. sci. 237:1664-6. 12/53.

Takahashi, N., K. Itoh, T. Itoh, M. Watanabe, K. Mihama & T. Takeyama 3599  
Four à haute température pour microscope électronique. Metaux Corrosion-Inds. 351:431-7. 11/54.

Takahashi, Noboru, Kazuhiro Mihama & G. Dupouy 3600  
Étude par diffraction et microscopie électroniques combinées de l'évolution thermique d'alliages cuivre-aluminium. Compt. rend. acad. sci. 239:583-5. 8/23/54.

Takahashi, Noboru, Jean J. Trillat & Adrien Saulnier 3601  
Étude par diffraction électronique des alliages aluminium-cuivre obtenus par vaporisation sous vide. Metaux Corrosion-Inds. 28:185-202. 1953.

Takahashi, William N. 3602  
Rod-shaped virus of radish mosaic. Phytopathology. 42:623-4. 11/52.

Takahashi, William N. & Mamoru Ishii 3603  
An abnormal protein associated with tobacco mosaic virus infection. Nature. 169:419-20. 3/8/52.

Takahashi, William N. & Mamoru Ishii 3604  
The formation of rod-shaped particles resembling tobacco mosaic virus by polymerization of a protein from mosaic-diseased tobacco leaves. *Phytopathology*. 42:690-1. 12/52.

Takahashi, William N. & M. Ishii 3605  
A macromolecular protein associated with tobacco mosaic virus infection: its isolation and properties. *Am. J. Botany*. 40(2):85-90. 1953.

Takahashi, Y., Y. Naito, J. Arima & K. Yamamoto 3606  
Structure fine du Mycobacterium tuberculosis étudiée au microscope électronique. Compt. rend. soc. biol. 148:1322-4. 1954.

Takaki, Fumikazu, Teruo Suzuki, Hiromoto Yasuda, Kazuo Ogawa, Shigeru Aoyagi, Yoshio Shimizu & Akira Hagiwara 3607  
Electron-microscopic cyto-histopathology. (I) Studies on autolytic changes of ultra-cell-structures. (Autolytic changes of pancreatic excretory cells, renal proximal convoluted tubulus cells and liver cells of rat.) Tokyo Jikeikai School of Med. 2(1/2):27-59. 1955.

Takamoto, N. & Yoshimi Tanabe 3608  
On the Cu-collodion replica method for electronmicroscopy. *Mem. Fac. Technol., Tokyo Metropol. Univ.* 4:235-40. 1954.

Takashima, Ritsuzo & Haruyuki Kawahara 3609  
Electron microscopy on the fertilization membrane of Japanese Paloro (*Tylorrhynchus heterochaetus*). *Tokushima J. Exptl. Med.* 1(1):37-44. 1954.

Takashima, Ritsuzo & Haruyuki Kawahara 3610  
Observations on the ultrastructure of fertilization membrane of sea urchin eggs. *Tokushima J. Exptl. Med.* 1(2):115-20. 7/54.

Takashima, Ritsuzo, Haruyuki Kawahara & Tanehiko Higuchi 3611  
Studies on the egg-jelly of sea urchin (*Hemicentrotus pulcherrimus*) by electron microscopy. *Bull. Exptl. Biol.* 5(1):40-5. 2/55.

Takeya, Kenji, Masaatsu Koike & Kiyoteru Tokuyasu 3612  
An improved preparation technique for the electron microscopy of bacteria and some results of its practical application. *Kyushu Mem. Med. Sci.* 3(1):85-101. 7/52.

Takeya, Kenji, Masaatsu Koike, Takashi Uchida, Shuji Inoue & Katsuto Nomiyama 3613  
Studies on the nature of granules found in acid-fast bacilli. *J. Electronmicroscopy.* 2(1):29-33. 1954.

Takeya, Kenji & Ryoichi Mori 3614  
The morphology of *Leptospira* as revealed by the electron microscope. (in Japanese) *Nisshin Igaku*. 40:607-11. 1953.

Takeya, Kenji, Kiyoteru Tokuyasu, Masaatsu Koike & Tadao Toda 3615  
The "cell-wall-like structure" encircling the cell body of the acid-fast bacillus. *Kyushu Mem. Med. Sci.* 4(2/3):105-13. 1953.

Takishima, R., H. Kawahara & S. Katsura 3616  
Electron micrographs of fertilization membrane and spermatozoa. (*Strongylocentrotus pulcherrimus*) *Zikken Seibutsugaku Ho, Japan*. 3:46. 1953.

Takiyama, Kazuyoshi & Eiji Suito 3617  
An electron microscopic study on the suspension for the nephelometry of sulfate ion. *Bunseki Kagaku*. 3:291-3. 1954.

Takuma, S. 3618  
A study on the minute structure of human dental tissues by electron microscopy. I. Optical microscopy of tooth surface by shadowed replica method. *Shikwa Gak.* 53:19-22. 1953.

Takuma, Shosaburo 3619  
The electron microscopy of the enamel surfaces of teeth under various abnormal conditions. *J. Dental Research*. 34(2):152-63. 4/55.

Takuma, Shosaburo, Toshimitsu Enoki, Seichiro Aihara, Y. Kamijo, Hiroshi Ukai & E. Onishi 3620  
Electron microscopy on the structures of human tooth. Structures of the outer enamel surface especially that of abnormally formed tooth. (in Japanese) *Nippon Shika Ishikai Zasshi*. 6:22-4. 1953. *Nippon Byori Gakkai Kaishi*. 42:274-6. 1953.

Takuma, S., T. Noike, S. Matsumiya, S. Aihara, R. Ito & H. Fujii 3621  
Electron microscopy of smooth surface caries of human dental enamel. *Nippon Byori Gakkai Kaishi*. 42:340-1. 1953.

Takuma, Shosaburo, Hiroshi Ukai, Toshimitsu Enoki, Seiichiro Aihara, Hiroki Ajiro 3622  
Electron microscopic studies on dental caries and its prevention. VI. A study on structural change of enamel surface following the action of NaF·HF solution. (in Japanese) *Nippon Byori Gakkai Kaishi*. 41:306-7. 1952.

Takuma, Shosaburo, Noboru Yoshioka, Akira Yamaguchi, Okimasa Fujii, Kazuhiro Kukidome & Yasushi Takada 3623  
Electron microscopy of the human dental tissues using the ultra-thin sectioning method. *Nippon Byori Gakkai Kaishi*. 43:255-9. 1954.

Tamamushi, Bun-ichi & Bunya Tadano 3624  
The growth of colloid-crystals in the course of aging of colloidal solutions. 1st Int. Cong. Electron Micros., Paris, 9/50. *Proc.* :537-8. Paris, Ed. Rev. Optique, 1953.

Tamm, Igor & Donald J. Fluke 3625  
The effect of monochromatic ultraviolet radiation on the infectivity and hemagglutinating ability of the influenza virus type A strain PR-8. *J. Bacteriol.* 59:449-61. 4/50.

Tamura, Mikio & Simpei Tutihashi 3626  
Silver bromide polycrystalline film prepared by precipitation method for photoconductive measurements. *J. Opt. Soc. Amer.* 43:407-8. 5/53.

Tanabe, Yoshimi 3627  
Research on metallic replica. I. Preparation of the replica for carbon steels, special steels and cast irons. II. Influence of nickel and chrome as alloying elements on the optimum concentration of replica solution. III. Influence on the optimum replica solution by Si and Co in iron. IV. Influence on the optimum replica solution of C and three elements of C, Ni and Cr in iron. V. Influence on the optimum replica solution by Mn and three elements of C, Mn and Cr in iron. VI. On the replacement of martensite. VII. Influence on the optimum replica solution by W and five elements of C, Ni, Cr, Si and W in iron. VIII. Influence on the optimum



replica solution by Mo and five elements of C, Cr, W, Ni and Mo in iron. IX. Influence on the optimum replica solution of V and five elements of C, Cr, W, Co and V in iron. X. Influence on the optimum replica solution of Ti, with addendum. Nippon Kinzoku Gakkaishi. 14(11):12-6, 1950; 15(5):126-7, 1951; 15(8):348-51, 1951; 15(8):351-4, 1951; 16(5):249-53, 1952; 16(5):253-6, 1952; 16(8):435-9, 1952; 16(8):439-43, 1952; 17(10):471-5, 1953; 17(10):475-8, 1953.

Tanabe, Yoshimi 3628  
Research on the application of the metalline replica for the electron microscope. On the Cu-SiO<sub>2</sub> method. Nippon Kinzoku Gakkaishi. 16(7):374-8. 1952.

Tanabe, Yoshimi 3629  
Study on ferrite and cementite with electron microscope. Nippon Kinzoku Gakkaishi. 17(8):363-7. 1953.

Tanaka, Kenzo & Hatsujiro Hashimoto 3630  
Construction of a universal electron diffraction microscope and its optical features. Rev. Sci. Instr. 24(8):669-75. 8/53.

Tani, Yasumasa & Mitsu Ikeya 3631  
Electron microscopic observation of surface structure of fatigue fractured metallic material. J. Electromicroscopy. 2(1):49-53. 1954.

Tarshis, Barry 3632  
Oocyst-like bodies on the midgut of *Stilbonotopha impressa* (Bigot) (Diptera: Hippoboscidae). Science. 118(3060):199-202. 8/21/53.

Tawara, Jutaro 3633  
The electron-microscopic study on the flagella of *Vibrio cholerae*. Japan J. Bacteriol. 8:423. 1953.

Taylor, A. R. & M. J. McCormick 3634  
Electron microscopy of poliomyelitis virus (Mahoney tissue culture strain). (Abstract, Paper #34, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys. 24:1418. 11/53.

Teague, D. M. 3635  
Metal shadowing for contrast enhancement comparison of shadow metal and shadow angle. Symposium on Techniques for Electron Metallography. Special Technical Publ. #155. Am. Soc. Testing Materials, :65-81. 1953.

Teague, D. M., C. R. Lewis & S. B. Twiss 3636  
Applications of electron microscopy to studies of metallic wear. (Abstract, Paper #E 1, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1460. 1954.

Teague, D. M. & S. T. Ross 3637  
Electron microstructures of bainite and tempered martensite in steel. Am. Soc. Testing Materials. Proc. 55:590-622. 1955.

Teague, D. M. & L. H. Zimmermann 3638  
A technique for studying the electron microstructure of steel. (Abstract, Paper #47, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:72. 1950.

Teichner, Stanislas & Émile Pernoux 3639  
Fractionnement aux ultrasons d'un kieselguhr servant de support des catalyseurs Fischer. Compt. rend. acad. sci. 230:1063-4. 1950.

Teichner, S. & E. Pernoux 3640  
The texture and surface area of kieselguhrs after various treatments. Clay Minerals Bull. 1(5):145-50. 1951.

Terada, Masanaka 3641  
Electron microscopic studies on leprosy bacilli, with special reference to the relationship between leprosy bacilli and superneurofibrillae. J. Electronmicroscopy. 1(1):51-3. 1953.

Terada, Masanaka 3642  
Electron microscopic studies on multiplication of bacterial virus. J. Electronmicroscopy. 3(1):29-38. 1955.

Terada, M. & S. Arai 3643  
Study on bacteriophages of *S. paratyphi* A. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :630-1. Paris, Ed. Rev. Optique, 1953.

Terada, M., H. Hiratsuka & Y. Shidaka 3644  
Study on bacteriophages of *S. typhi* murium. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :628-9. Paris, Ed. Rev. Optique, 1953.

Terada, M., J. Kuchibaand & T. Yokoyama 3645  
Study on bacteriophages. Study on bacteriophages of *S. enteritidis*. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :622-3. Paris, Ed. Rev. Optique, 1953.

Terada, Masanaka, Jun Maeda & Hiroto Ito 3646  
Electron microscopic and biological studies on bacterial virus. 16. Study on bacteriophage of *S. pullorum* (Y.S. 6-strain). Tokyo Med. J. 70(9):479-80. 9/53.

Terada, M., I. Okuro, T. Tomii, T. Nakamura & T. Hoshino 3647  
Electron microscopic study on epidemic diarrhea and Japanese B encephalitis virus. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :635-6. Paris, Ed. Rev. Optique, 1953.

Terada, Masanaka, Sakuo Shimetani & Toshimasa Nagai 3648  
Electron microscopic and biological studies on bacterial virus. 17. Study on bacteriophage of *E. coli communis* Umesawa-strain. Tokyo Med. J. 70(11):623-4. 11/53.

Terada, Masanaka & Kashio Suzuki 3649  
Electron microscopic and biological study on bacterial virus. 15. Electron microscopic and biological study on bacteriophage active against *Pseudomonas aeruginosa*. Tokyo Med. J. 70(8):415-6. 8/53.

Terada, M., F. Tsai & M. Kita 3650  
Study on bacteriophages. I. Of *S. cholerae* suis. II. Of *S. gallinarum* (Akita). III. Of *S. Sendai*. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :624-7. Paris, Ed. Rev. Optique, 1953.

Terada, M., S. Usami & K. Kudo 3651  
Study on bacteriophages of *E. typhosa*. 1st Int. Cong. Electron Micros., Paris, 9/50. Proc. :633-4. Paris, Ed. Rev. Optique, 1953.

Terada, Masanaka, Yoshisato Yamaguchi & Yasukazu Watabe 3652  
Electron microscopic and biological studies on bacterial virus. 18. Electron microscopic and biological study on bacteriophage active against *Staphylococcus pyogenes aureus* 209 p strain. Tokyo Med. J. 71(7):375-6. 1954.

- Terada, M., T. Yamaide & H. Miyagawa 3653  
Study on bacteriophages of *S. paratyphi* B.  
1st Int. Cong. Electron Micros., Paris, 9/50.  
Proc. :632-3. Paris, Ed Rev. Optique, 1953.
- Terao, Nobuzo & Shigefumi Okada 3654  
Electromicroscopie de la surface d'une  
cassure de verre. J. Phys. Soc. Japan. 7:427-  
9. 1952.
- Terao, Nobuzo & Shigeo Sakata 3655  
Electromicroscopie de la surface d'une cassure  
de verre (II). J. Phys. Soc. Japan 9:109-14.  
1954.
- Terrien, Jean 3656  
De la loupe au microscope électronique.  
Paris, Presses Universitaires de France. 1951.  
125 p.
- Thiel, R. & W. Schwarz 3657  
Elektronenmikroskopische Untersuchungen an  
Kammerwasserbestandteilen. Klin. Monatsbl.  
Augenheilk. 125(3):265-71. 1954.
- Thiele, H. 3658  
Gestaltsänderung der Seifenmizelle. Kolloid-  
Z. 125:31-2. 1952.
- Thiele, H. & G. Kienast 3659  
Einfluss von Ionen auf die Struktur bei der  
Gelbildung. Kolloid-Z. 127:134-44. 1952.
- Thiele, Heinrich & Herbert Lamp 3660  
Über die Spinnbarkeit kolloider Lösungen.  
Kolloid-Z. 129:25-39. 1952.
- Theismann, Hans & Karl-Heinz Wallhäuser 3661  
Elektronenmikroskopische Untersuchungen an  
beschallten Bakterien. Naturwissenschaften.  
37:185-6. 1950.
- Thirsk, H. R. & W. Wynne-Jones 3662  
Structural and kinetic phenomena observed  
during the anodic polarization of metals.  
Trans. Inst. Metal Finishing, Advance Copy.  
29:260-73. 1953.
- Thomas, J. B., M. Bustraan & C. H. Paris 3663  
On the structure of spinach chloroplast.  
Biochim. et Biophys. Acta. 8:90-100. 1/52.
- Thomas, J. B., L. C. Post & N. Vertregt 3664  
Localisation of chlorophyll within the  
chloroplast. Biochim. et Biophys. Acta. 13:  
20-30. 1954.
- Thomas, Owen Lewis 3665  
Canals within pancreas cells. Nature. 176:  
978-9. 1955.
- Thompson, R. E. M. 3666  
A species of *Rhizobium* isolated from straw-  
berry foot-rot in the sheep. J. Pathol. Bacter-  
iol. 68(2):445-52. 1954.
- Thornburg, Wayne 3666a  
Polarization and electron microscope study  
of the nerve axoplasm. Anat. Record. 118:362.  
2/54.
- Thoroczkay, N., E. Florian & B. Lovas 3667  
Electron-microscopic study of pathogenic  
fungi of the skin. (in German) Arch. Dermat.  
Syph. 199(2):168-82. 1955.
- Thouvenot, H. & A. Florent 3668  
Étude d'un anaérobie du sperme du taureau  
et du vagin de la vache *Vibrio bubulus* Florent  
1953. Ann. inst. Pasteur. 86:237-40. 2/54.
- Tikhonov, V. A. & L. A. Tikomirova 3669  
The influence of surface agents on changes  
in the structure of cement. (in Russian)  
Zhurn. Priklad. Khim. 27:1067-81. 1954.
- Timbrell, V. 3670  
The terminal velocity and structure of air-  
borne aggregates of microscope spheres. Brit.  
J. Appl. Phys. Suppl. 3:S12-S16. 1954.
- Timm, U. 3671  
Zur Berechnung elektrostatischer Linsen. Z.  
Naturforsch. 10a:593-602. 8/55.
- Tobias, Julian M. & S. H. Bryant 3672  
An isolated giant axon preparation from the  
lobster nerve cord. Dissection, physical struc-  
ture, transsurface potentials and microinjection.  
J. Cellular Comp. Physiol. 46(2):163-82. 1955.
- Tokuyasu, K. 3673  
The structures and the development of silkworm  
polyhedra. Enzymologia. 16:62-8. 4/15/53.
- Tomlin, S. G. 3674  
Reticulin and collagen. Nature. 171:302.  
2/14/53.
- Tomlin, S. G. & H. G. Callan 3675  
Preliminary account of an electron microscope  
study of chromosomes from newt oocytes. Quart.  
J. Microscop. Sci. 92(2):221-4. 6/51.
- Tomlin, S. G. & J. W. May 3676  
Electron microscopy of sectioned bacteria. A  
study of *Escherichia coli*. Australian J. Exptl.  
Biol. Med. Sci. 33:249-56. 1955.
- Tomlin, S. G. & J. Monro 3677  
The structure of a polyhedral virus from the  
larva of *Ardices glatignyi* Le Guil. (Lepidop-  
tera: Arctiidae). Biochim. et Biophys. Acta.  
18:202-8. 1955.
- Trager, William 3678  
Mitochondria or microorganisms? Science.  
116(3013):332-3. 9/26/52.
- Tremble, G. E. 3679  
Observations of respiratory cilia with the  
electron microscope. Brit. Med. J. 2:127.  
7/9/55.
- Tretner, W. 3680  
Die untere Grenze des Öffnungsfehlers bei  
magnetischen Elektronenlinsen. Optik. 11:312-  
26. 1954.
- Trillat, Jean Jacques 3681  
Action des électrons sur le bromure d'argent  
polycristallin et unicristallin. Science et  
inds. phot. 23(4):129-36. 4/52.
- Trillat, Jean Jacques 3682  
Formation, croissance et structure de l'argent  
dans les films minces de bromure d'argent sous  
l'action des électrons. Acta Cryst. 5(4):471-3.  
7/52.
- Trillat, J. J. 3683  
Applications des rayons X et de la microscopie  
électronique à l'étude des matériaux textiles.  
Bull. inst. textile France. 37:47-62. 2/53.
- Trillat, Jean Jacques 3684  
Étude par diffraction et par microscopie élec-  
troniques du comportement du bromure d'argent  
sous l'action des électrons rapides. Compt. rend.



acad. sci. 236:60-2. 1/5/53.

Trillat, Jean Jacques & Michel Besse 3685  
Sur l'étude des états de surface des tissus  
au moyen de répliques. Compt. rend. acad. sci.  
232:608-10. 2/12/51.

Trillat, J. J. & Claire Pierrée 3686  
Action des électrons rapides sur le bromure  
d'argent. Etude par diffraction et par micros-  
copie électroniques. Science et inds. phot.  
24(2):41-3. 1953.

Tripp, Verne W. & Ruth Giuffria 3687  
Electron microscopy of limited swelling in  
cotton. (Abstract, Paper #I 5, Electron Micro-  
scope Society of America Meeting, Highland Park,  
Ill., 10/14-6/54.) J. Appl. Phys. 25:1465.  
1954.

Tripp, Verne W., Anna T. Moore & Mary L.  
Rollins 3688  
The relation of morphology and dimensional  
changes on mercerization of the primary wall  
of cotton fiber. (Abstract, Paper #24, Elec-  
tron Microscope Society of America Meeting,  
Pocono Manor, Pa., 11/5-7/53.) J. Appl. Phys.  
24:1416. 11/53.

Tripp, Verne W., Anna T. Moore & Mary L.  
Rollins 3689  
A microscopical study of the effects of some  
typical chemical environments on the primary  
wall of the cotton fiber. Textile Research J.  
24(11):956-70. 1954.

Trotter, J. 3690  
Electron-microscopic studies of slip in  
aluminium during creep. J. Inst. Metals. 80:  
521-3. 1951-2.

Trotter, J., D. McLean & C. J. B. Clews 3691  
The microstructure of water-quenched carbur-  
ized iron. In Metallurgical Applications of  
the Electron Microscope. Institute of Metals  
Monograph and Report Series No. 8. :75-83.  
London, 1950.

Truby, Frank K. 3692  
Hexagonal microstructure of ice crystals  
grown from the melt. J. Appl. Phys. 26:1416-  
20. 12/55.

Tsuchikura, Hidetsugu, Takaji Kusakawa &  
Takeomi Okumoto 3693  
The observation of the graphite in cast iron  
by means of cathodic vacuum etching. J.  
Electronmicroscopy. 4(1):26-30. 1955.

Tsuda, Seizo 3694  
Electron microscopical studies of ultra-thin  
sections in *Aspergillus*, *Penicillium* and  
*Neurospora*. Indian Phytopathol. 8:83-93. 1955.

Tsukamoto, Kōichi, Mamoru Sasaki & Fusao  
Morita 3695  
Electron micrographs of blood cells with  
special reference to the crystals produced by  
the peroxidase reaction. Folia Anat. Japon.  
24(3):199-203. 1952.

Tufts, Charles Fulton 3696  
Determination of surface geometry and struc-  
ture by microscopy and diffraction. Anal. Chem.  
24:1700-4. 11/52.

Tulasne, R. & G. Bringmann, 3697  
Données nouvelles apportées par la micros-  
copie électronique sur la morphologie des  
formes L des bactéries. Rev. immunol. 16(4/5):

325-30. 1952.

Tullis, James L. 3698  
Preservation of platelets. Am. J. Med. Sci.  
226:191-202. 8/53.

Tulloch, G. S. & J. E. Shapiro 3699  
Brochosomes. Bull. Brooklyn Entomol. Soc.  
68(2):57-63. 12/53.

Tulloch, G. S. & J. E. Shapiro 3700  
Brochosomes: Spheroids associated with cuti-  
cular extensions of insects. (Abstract, Paper  
#76, Electron Microscope Society of America  
Meeting, Pocono Manor, Pa., 11/5-7/53.) J.  
Appl. Phys. 24:1425. 11/53.

Tulloch, G. S. & J. E. Shapiro 3701  
Brochosomes and leafhoppers. Science. 120  
(3110):232. 8/6/54.

Tulloch, G. S., J. E. Shapiro & G. W.  
Cochran 3702  
The occurrence of ultramicroscopic bodies  
with leafhoppers and mosquitoes. Bull. of the  
Brooklyn Entomol. Soc. 45(2):41-2. 4/52.

Tunbridge, R. E., R. N. Tattersal, D. A.  
Hall, W. T. Astbury & R. Reed 3703  
The fibrous structure of normal and abnormal  
human skin. Clin. Sci. 11(4):315-31. 1952.

Turkevich, J., G. Garton & P. C. Stevenson 3704  
The color of colloidal gold. J. Colloid  
Sci. Suppl. 1:26-35. 1954.

Turkevich, John, Harry H. Hubbell & James  
Hillier 3705  
Electron microscopy and small angle X-ray  
scattering. Discussions Faraday Soc. 8:348-52.  
1950.

Turkevich, John, Peter Cooper Stevenson &  
James Hillier 3706  
A study of the nucleation and growth pro-  
cesses in the synthesis of colloidal gold.  
Discussions Faraday Soc. 11:55-75. 1951.

Turnbull, T. P. 3707  
Recent advances in instrumentation for the  
Philips EM 100 electron microscope. (Abstract,  
Paper #A7, Electron Microscope Society of Amer-  
ica Meeting, Highland Park, Ill., 10/14-6/54.)  
J. Appl. Phys. 25:1454. 1954.

Tyrrell, David A. & Frank L. Horsfall Jr. 3708  
Disruption of influenza virus. J. Exptl.  
Med. 99(4):321-42. 4/1/54.

Uchida, Hisao 3709  
A simplified thermal expansion type ultra-  
microtome. J. Electronmicroscopy. 1(1):44-6.  
1953.

Ueda, Ryuzo 3710  
Studies on the grain growth of austenite of  
steels at high temperatures by means of the  
emission-type electronmicroscope. J. Electron-  
microscopy. 1(1):42-4. 1953.

Ultra-microtome. LKB-Produkter, 3711  
Fabriksaktiebolag, Stockholm, Sweden.  
J. Sci. Instr. 31:112. 3/54.

Ushiba, Daizo & Bujiro Kitasato 3712  
Studies on mutabile type variation (Murase)  
with special reference to influence of galactose  
on the variants. Keio Igaku. 1(4):269-81.  
12/52.

- Uyeda, Ryozi 3713  
A theory on image formation of electron microscop-  
copy. J. Phys. Soc. Japan. 10(4):256-64. 1955.
- Vago, C., O. Croissant & P. Lépine 3714  
Démonstration au microscope électronique du  
développement intranucléaire du virus de la  
grasserie. Ann. inst. Pasteur. 89:364. 9/55.
- Vago, C., P. Lépine & O. Croissant 3715  
Mise en évidence du virus de la "granulose"  
(Pseudograsserie) de Pieris brassicae L. Ann.  
inst. Pasteur. 89:458-60. 1955.
- Valenti, Salvatore 3716  
Morfologia e biologia del bacillo di Koch  
al microscopio elettronico. Ann. ist. "Carlo  
Forlanini". 15(1):95-103. 1955.
- Valentine, R. C. & J. R. G. Bradfield 3717  
A new procedure for bacterial viability  
counts and its biophysical applications. Nature.  
171:878. 5/16/53.
- Valentine, R. C. & J. R. G. Bradfield 3718  
The urea method for bacterial viability  
counts with the electron microscope and its  
relation to other viability counting methods.  
J. Gen. Microbiol. 11(3):349-57. 12/54.
- Vallmitjana, L. 3719  
Observaciones sobre los cilios y otras es-  
tructuras de los protozoos. Publs. inst. biol.  
apl. Barcelona. 20:5-15. 8/55.
- Vallmitjana, L. & C. Xalabarder 3720  
Consideraciones sobre los apéndices vibrá-  
tiles y otras formaciones filamentosas de al-  
gunos protistos. Publ. inst. biol. apl. Bar-  
celona. 17:71-85. 1954.
- van Breemen, V. L. 3721  
Myofibril development observed with the elec-  
tron microscope. Anat. Record. 113(2):179-95.  
6/52.
- van Breemen, V. L. 3722  
Intercalated discs in heart muscle studied  
with the electron microscope. Anat. Record.  
117(1):49-63. 9/53.
- van Breemen, V. L. 3723  
The structure of neuroglial cells as observed  
with the electron microscope. Anat. Record.  
118:438. 1954.
- van Breemen, V. L. & C. D. Clemente 3724  
Silver deposition in the central nervous  
system and the hematoencephalic barrier studied  
with the electron microscope. J. Biophys.  
Biochem. Cytol. 1:161-6. 3/25/55.
- van den Ende, M., Phyllis A. Don, W. J. El-  
ford, C. E. Challice, I. M. Dawson & J. E.  
Hotchin 3725  
The bacteriophages of Pseudomonas aeruginosa  
filtration measurements and electron microscopy.  
J. Hyg. 50:12-20. 3/52.
- van den Hooff, A. 3726  
Electron microscopy of cornea and schlera  
connective tissue. Koninkl. Ned. Akad. Weten-  
schap. Proc. 55C(5):628-33. 1952.
- van den Hooff, A. 3727  
Electronen-microscopische waarnemingen aan  
cornea en sclera. Ned. Tijdschr. Geneesk.  
97(42):2756. 1953.
- van den Hooff, A. 3728  
Het electronen-microscopische beeld van het  
membraan van Bruch. Ned. Tijdschr. Geneesk.  
98:2869-70. 1954.
- van den Hooff, A. 3729  
Electron-microscopical structure of some  
ophthalmic fibrous structures. Ophthalmol-  
ogica, Basel. 129:60-1. 1955.
- van Dorsten, A. C. 3730  
A medium power 75 kV electron microscope of  
simplified construction. (Abstract, Paper #A3,  
Electron Microscope Society of America Meeting,  
Highland Park, Ill., 10/14-6/54.) J. Appl.  
Phys. 25:1453. 1954.
- van Dorsten, A. C. 3731  
Recent advances in emission electron micros-  
copy. (Abstract, Paper #D6, Electron Micro-  
scope Society of America Meeting, Highland Park,  
Ill., 10/14-6/54.) J. Appl. Phys. 25:1459.  
1954.
- van Dorsten, A. C. & A. J. J. Franken 3732  
Three methods of measuring magnetic fields:  
II. Measurement of the field on the axis of  
magnetic electron lenses. Philips Tech. Rev.  
15:52. 1953.
- van Dorsten, A. C., H. Nieuwdorp & A.  
Verhoeff 3733  
The Philips 100 kV electron microscope.  
Philips Tech. Rev. 12(2):33-51. 8/50.
- Van Hengel, J. & J. Kramer 3734  
High-tension microscope alignment. Conf. of  
Electron Micros., Delft, 7/49. Proc. The Hague,  
Nijhoff, 1950. :38-9.
- Van Iterson, W. 3735  
Some observations on bacterial flagellation.  
Conf. of Electron Micros., Delft, 7/49. Proc.  
The Hague, Nijhoff, 1950. :117-9.
- Van Iterson, W. 3736  
De betekenis van de elektronenmicroscop voor  
de arts. Ned. Tijdschr. Geneesk. 95:3924-41.  
12/29/51.
- Van Iterson, W. 3737  
De betekenis van de electronen-microscop  
voor de bioloog. Vakblad voor Biologen. 32:  
3-20. 1/52.
- Van Iterson, Wouter 3738  
Some remarks on the present state of our know-  
ledge of bacterial flagellation. Bacterial  
Cytology, Symposium, 6th Int. Cong. Microbiol.,  
Rome, 9/53. :24-38. Rome, ist. Super. Sanità.  
1953.
- van Itterbeek, A. 3739  
Current sensitivity and other characteristics  
of metal films at low temperatures. Nat.  
Bur. Standards U.S. Circ. 519:243-7. 1953.
- van Itterbeek, A., L. DeGreve & F. Heremans 3740  
Measurements on the formation of thin tin  
films. Appl. Sci. Research. 2(B):352-60. 1952.
- van Itterbeek, A., L. DeGreve, G. F. Van  
Veelen & C. A. F. Tuynman 3741  
Thin glass layers as supports for electron  
microscopy. Nature. 170:795-6. 11/8/52.
- Van der Scheer, C. 3742  
Electron microscopy in the service of agricul-



ture and horticulture. (in Dutch) Landbouw-voorlichting. 12:337-43. 7/55.

van Dorsten, A. C. & J. B. Le Poole 3743  
The EM 75 kV, an electron microscope of simplified construction. Philips Tech. Rev. 17(2):47-59. 1955.

van Slogteren, D. H. M. 3744  
Gel diffusion of tobacco mosaic virus, demonstrated by serological analysis of its components and by electron microscopy. Acta Botan. Neerl. 4(3):474-6. 1955.

van Slogteren, E. 3745  
The role of the electron microscope in the investigation of plant diseases. Philips Tech. Rev. 14(1):13-20. 7/52.

Van Winkle, Q., E. S. Palik, R. H. Smith & A. F. Prebus 3746  
Electron microscopy of isolated chromosomes. Ohio State Univ. Studies. Eng. Exp. Sta. News. 25(5):51-8. 1953.

Van Winkle, Quentin, M. W. Renoll, J. S. Garvey & A. F. Prebus 3747  
Electron microscopy of isolated chromosomes. Science. 115:711-2. 6/27/52.

Van Winkle, Q., M. W. Renoll, J. S. Garvey, E. S. Palik & A. F. Prebus 3748  
Electron microscopy of isolated chromosomes. Exptl. Cell Research. 5(1):38-47. 1953.

Varossieau, W. W. 3749  
On the use of the electron microscope in wood anatomy. Conf. on Electron Micros., Delft, 7/49. Proc. The Hague, Nijhoff, 1950. :107-10.

Veldkamp, H. 3750  
A study of the aerobic decomposition of chitin by microorganisms. (in Dutch) Mededeel. Landbouwhoogeschool Wageningen. 55(3):127-74. 1955.

Vendramini, R. & L. Majori 3751  
Contributo allo studio dell'apparato nucleare nelle pettenkoferie. Boll. soc. ital. biol. sper. 27(5):903-6. 1951.

Ventra, Domenico 3752  
Aspetti al microscopio elettronico della struttura submicroscopica della sostanze basofile del citoplasma nervoso. Acta Neurol. Naples. 10(5):585-602. 1955.

Verlhac, M. 3753  
Émulsions photographiques mises au point pour la microphotographie électronique. Bull. microscop. appl. 4:119-23. 9-10/54.

Vernon, T. R. 3754  
Spore formation in the genus Streptomyces. Nature. 176:935-6. 11/12/55.

Vidmajer, A. 3755  
Übermikroskopische Untersuchungen an sublimiertem Molybdänoxid. Kolloid-Z. 130(2):69-83. 1953.

Vieuchange, J. & J. Giuntini 3756  
Étude au microscope électronique de l'hémagglutination due à la vaccine. Ann. inst. Pasteur. 83:487. 10/52.

Vinogradov, G. V. 3757  
Lubricating greases as disperse systems.

Vsesoyuz. Soveshchaniya po Khim. i. Pererabotke Nefti Trudy 1953. Zhur Khim 1954.

Vinogradov, G. V., N. A. Nechitailo, V. Sinitsyn & V. I. Aleksashin 3758  
Electron microscope study of plastic grease structure. J. Appl. Chem. U.S.S.R. 28:47-54. 1/55.

Vishwanathan, R., K. C. Gupta, A. Pande, I. C. Chopra & A. J. H. deMonte 3759  
Electron-microscopic study of the effect of streptomycin on the cytology of tubercle bacilli. Am. Rev. Tuberc. 70(2):328-33. 8/54.

Vogel, Alfred 3760  
Zur Feinstruktur von Ramie. Doctoral Dissertation, Eidgenössische Technische Hochschule, Zürich. Prom. Nr. 2274. Heidelberg, A. Hüthig, 1953. 24 p.

Vogel, Alfred 3761  
Zur Feinstruktur von Ramie. Makromol. Chem. 11:111-28. 1953.

Vold, Marjorie J., Valeria A. Elersich, Richard F. Baker & Robert D. Vold 3762  
Grease structures indicated by X-ray; orientation analysis and electron microscopy. Inst. Spokesman, Natl. Lubricating Grease Inst. 18(5):8-16. 8/54.

Vold, Robert D., Henry F. Coffey & Richard F. Baker 3763  
Direct observation of gel structure with the electron microscope. J. Colloid Sci. 5(6):586-8. 12/50.

Vold, R. D., H. F. Coffey & R. F. Baker 3764  
Rheological studies and electron microscopy of calcium stearate - cetane gels. Inst. Spokesman, Natl. Lubricating Grease Inst. 15:9-17. 1/52.

Vold, R. D., V. Elersich & R. F. Baker 3765  
Interparticle structures in thin sections of lubricating greases. Rapport Européen Congrès Toeg. Em, Gent, 4/7-10/54. :265-71.

Vol'fkovich, S. I., L. B. Grinshpan & A. B. Shekhter 3766  
The electron microscopic study of natural phosphates. (in Russian) Doklady Akad. Nauk. S.S.S.R. 85:137-9. 1952.

Volz, G. 3767  
Elektronenmikroskopische Untersuchungen über die Porengrößen pflanzlicher Zellwände. Mikroskopie. 7(7/8):251-66. 1952.

von Albertini, A. 3768  
Electron microscopic study of epidermal carcinoma induced by methylcholanthrene in the mouse. J. Natl. Cancer Inst. 13:1473-95. 6/53.

von Albertini, A., E. Glatthaar & A. Vogel 3769  
Elektronenmikroskopische Untersuchungen am atypischen Porteoepithel. Oncologia. 8(2):185-94. 1955.

von Albertini, A. & A. Vogel 3770  
Beitrag zum Problem der Prakanzerose. (Vorläufige Mitteilung.) Schweiz. Z. allgem. Pathol. u. Bakteriologie. 17(6):736-42. 1954.

von Borries, Bodo 3771  
Die gegenwärtige Lage der Mikroskopie. Z. Ver. deut. Ingr. 92(10):240-8. 1950.

- von Borries, Bodo 3772  
Ein magnetostatisches Elektronenschatten-  
mikroskop als Elektronenbeugungsapparatur.  
Kolloid-Z. 118:110-2. 1950.
- von Borries, Bodo 3773  
Größenbeziehungen zwischen Welt und Mensch.  
Umschau Wiss u. Tech. 19:609-12. 1950.
- von Borries, Bodo 3774  
Die Gradation des uebermikroskopischen Bildes.  
Z. wiss. Mikroskop. 60:69-82. 2/51.
- von Borries, Bodo 3775  
Ein magnetostatisches Gebrauchs-Elektronen-  
mikroskop für 60 kV Strahlspannung. Z. wiss.  
Mikroskop. 60:329-58. 3/52.
- von Borries, Bodo 3776  
Elektronenoptik und Feinmechanik. Jahrb.  
Rhein-Westf. Tech. Hochschule, Aachen. :44-56.  
1954.
- von Borries, B. 3777  
Die Elektronenmikroskopie in den Vereinigten  
Staaten von Nordamerika und in Deutschland.  
Physik. Bl. 11(5):223-7. 1955.
- von Borries, Bodo 3778  
Die Erweiterung des Menschlichen Sehvermögens  
durch das Elektronenmikroskop. Glückauf. 91  
(47/48):1273-95. 1955.
- von Borries, Bodo, F. Lenz & G. Opfer 3779  
Über die Remanenz in Weicheisenkreisen mag-  
netischer Elektronenlinsen. Optik. 10:132-6.  
1953.
- von Borries, Bodo & Helmut Ruska 3780  
Schrifttum der Elektronenmikroskopie. Z.  
wiss. Mikroskop. 60:103-12. 2/51. 60:212-43.  
5/51. 61:106-20. 2/52. 61:306-19. 5/53.  
61(7/8):448-60. 1954.
- Von Wettstein, Dietrich 3781  
Formwechsel und Teilung der Chromatophoren  
von *Fucus vesiculosus*. Z. Naturforsch. 9b(7):  
476-81. 1954.
- Voss, Herbert & Elfriede Wengel 3782  
Formen des Grippevirus. Zentr. Bakteriöl.  
Parasitenk. Abt. I. Orig. 162:225-35. 3/55.
- Votava, E., S. Amelinckx, W. Dekeyser & G.  
Vandermeerssche 3783  
Elektronenmikroskopische Untersuchung von  
(111)-ZnS-Kristalloberflächen. Rapport Euro-  
pées Congrès. Toeg. Em, Gent, 4/7-10/54.  
:353-7.
- Vovk, A. M. & G. S. Nikiforova 3784  
Investigation of big bud virus in an electron  
microscope. (in Russian) Akad. Nauk S.S.S.R.  
102:839-40. 6/1/55.
- Wakashima, H. 3785  
On the study of microstructure of fracture  
of metals by electron microscopy. Nippon Kin-  
zoku Gakkaishi. 18:528-35. 10/54.
- Wallaeys, Robert 3786  
Contribution a l'étude des apatites phospho-  
calciques. Thèse No. 350, Faculté des Sciences,  
Univ. de Paris, 1951. Paris, Masson, 1952.  
41 p.
- Walter, Norman M. 3787  
A diffraction study of micro-crystals by use  
of the Le Poole lens arrangement. (Abstract,
- Paper #8, Electron Microscope Society of Am-  
erica Meeting, Cleveland, Ohio, 11/6-8/52.)  
J. Appl. Phys. 24:112. 1953.
- Walthard, B. 3788  
Elektronenmikroskopische Strukturen. Oncol-  
ogia. 7(2):97-102. 1954.
- Walthard, B. 3789  
Elektronenmikroskopische Strukturen der  
Schilddrüse. Bull. schweiz. Akad. med. Wiss.  
11(4/5):346-51. 1955.
- Walthard, B. & A. Zuppinger 3790  
Die normale und pathologisch veränderte  
Schilddrüse im elektronenmikroskopischen Bild.  
Congrès Intern. Gynécologie d'Obstétr.,  
Genève, 1954. Exposition Scientifique. 18,  
Stand C17.
- Wang, Tung-Yue & Barry Commoner 3791  
Auxiliary infectious nucleoprotein from  
plants infected with tobacco mosaic virus.  
Science. 120(3129):1001-4. 12/17/54.
- Wanko, Theodor 3792  
Electron microscope study of mycobacteria  
in spinal fluid of multiple sclerosis. (Ab-  
stract, Paper #36, Electron Microscope Society  
of America Meeting, University Park, Pa.,  
10/27-9/55.) J. Appl. Phys. 26:1397. 1955.
- Ward, S. F. 3793  
Notes on the use of the diatom *Synedra ful-*  
*gens* in electron microscope magnification de-  
termination. J. Roy. Microscop. Soc. 72:  
64-6. 1952.
- Wardrop, A. B. 3794  
The fine structure of the conifer tracheid.  
Holzforschung. 8(1):12-29. 1954.
- Wardrop, A. B. 3795  
The intermicellar system in cellulose  
fibres. Biochim. et Biophys. Acta. 13(2):  
306-7. 1954.
- Wardrop, A. B. 3796  
The mechanism of surface growth involved in  
the differentiation of fibres and tracheids.  
Australian J. Botany. 2(2):165-75. 1954.
- Wardrop, A. B. 3797  
Observations on crossed lamellar structures  
in the cell walls of higher plants. Austral-  
ian J. Botany. 2(2):154-64. 1954.
- Wasser, Harriette Block 3798  
Demonstration of a new insect virus not  
associated with inclusion bodies. J. Bacter-  
iol. 64:787-92. 12/52.
- Wasser, Harriette Block & Edward A.  
Steinhaus 3799  
Isolation of a virus causing granulosis in  
the red-banded leaf roller. Virginia J. Sci.  
2(2):91-3. 4/51.
- Wassermann, F. 3800  
Fibrillogenesis in the regenerating rat  
tendon with special reference to growth and  
composition of the collagenous fibril. Am. J.  
Anat. 94(3):399-438. 5/54.
- Watanabe, Akira, Keiji Sasaki, Toshio Ono,  
Hiroshi Kushida, Akira Takahashi, Hiroshi  
Iwata & Younosuke Watanabe 3801  
A new model sliding microtome for electron  
microscopy. J. Electronmicroscopy. 1(1):  
48-50. 1953.



- Watanabe, Yonosuke 3802  
Demonstration of electron micrographs of animal tissue. Nippon Byori Gakkai Kaishi. 41: 237-9. 1952.
- Watanabe, Yonosuke 3803  
An electron microscopic study of the leukocytes in bone marrow of guinea pig. J. Electronmicroscopy. 2(1):34-9. 1954.
- Watanabe, Yonosuke 3804  
A study on the intracytoplasmic sacs in exocrine pancreatic cells and in myeloid cells. J. Electronmicroscopy. 3(1):43-50. 1955.
- Watillon, A. & F. Van Grunderbeeck 3805  
Une nouvelle technique pour le comptage des micelles d'un hydrosol à particules lyophobes. Bull. soc. chim. Belges. 63:115-32. 1954.
- Watson, John H. L. 3806  
Negative charging of glass fibers under electron bombardment. J. Appl. Phys. 22:1387-8. 11/51.
- Watson, John H. L. 3807  
Crystalline material in gastric secretion. Proc. Soc. Exptl. Biol. Med. 80:136-9. 1952.
- Watson, John H. L. 3808  
Crystalline  $\alpha$ -ray-acetyline reaction products. Radiation Research. 3(2):121-6. 1955.
- Watson, John H. L., Juan J. Angulo, Francisco León-Blanco, Gerardo Varela & C. Courtney Wedderburn 3809  
Electron microscopic observations of flagellation in some species of the genus Treponema schaudinn. J. Bacteriol. 61:455-61. 4/51.
- Watson, John H. L. & Michael W. Freeman 3810  
Fine structure of submicron alpha iron particles. (Abstract, Paper #1, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26:1391. 1955.
- Watson, John H. L. & William L. Grube 3811  
The reliability of internal standards for calibrating electron microscopes. (Abstract, Paper #5, Electron Microscope Society of America Meeting, Philadelphia, Pa., 12/8-10/51.) J. Appl. Phys. 23:157. 1/52.
- Watson, John H. L. & William L. Grube 3812  
The reliability of internal standards for calibrating electron microscopes. J. Appl. Phys. 23:793-8. 7/52.
- Watson, John H. L., A. E. Léger & C. Ouellet 3813  
On the growth and properties of the cuprene fibre. J. Phys. & Colloid. Chem. 54(7):969-79. 1950.
- Watson, John H. L., Jonathan Parsons, A. Vallejo-Freiere & P. de Souza Santos 3814  
X-ray and electron microscope studies on aluminium oxide trihydrates. Kolloid-Z. 140(2/3):102-12. 1955.
- Watson, John H. L. & Luther E. Preuss 3815  
Motion picture studies of electron bombardment of colloidal crystals. J. Appl. Phys. 21:904-7. 9/50.
- Watson, John H. L. & Luther E. Preuss 3816  
Motion pictures of electron microscope images. (Abstract, Paper #9, Electron Microscope Society

- of America Meeting, Washington, D. C., 10/6-8 /49.) J. Appl. Phys. 21:67. 1950.
- Watson, John H. L. & Luther E. Preuss 3817  
X-radiation from electron microscopes. Science. 112:407-8. 10/6/50.
- Watson, John H. L. & Marcel Vanpee 3818  
Electron microscopy of radiation polymerization and condensation products from controlled experiments. (Abstract, Paper #47, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:116. 1951.
- Watson, John H. L., Marcel Vanpee & S. C. Lind 3819  
The solids condensed from carbon monoxide by alpha particles. J. Phys. & Colloid Chem. 54:391-401. 3/50.
- Watson, M. L. 3820  
Spermatogenesis in the albino rat as revealed by electron microscopy. Biochim. et Biophys. Acta. 8:369-74. 1952.
- Watson, Michael L. 3821  
A method for complete extraction of embedding material from tissue sections for the electron microscope. Biochim. et Biophys. Acta. 10: 349-54. 1953.
- Watson, Michael L. 3822  
A new microtome for thin-sectioning for electron microscopy. Biochim. et Biophys. Acta. 10:1-4. 1953.
- Watson, Michael L. 3823  
Pores in the mammalian nuclear membrane. Biochim. et Biophys. Acta. 15:475-9. 1954.
- Watson, Michael L. 3824  
The nuclear envelope, its structure and relation to cytoplasmic membranes. J. Biophys. Biochem. Cytol. 1(3):257-70. 5/25/55.
- Watson, Michael L. 3825  
The use of carbon films to support tissue sections for electron microscopy. J. Biophys. Biochem. Cytol. 1(2):183-4. 3/25/55.
- Watson, M. L. & J. K. Avery 3826  
The development of the hamster lower incisor as observed by electron microscopy. Am. J. Anat. 95(1):109-162. 7/54.
- Watson, M. L. & R. A. Robinson 3827  
Collagen-crystal relationships in bone. II. Electron microscope study of basic calcium phosphate crystals. Am. J. Anat. 93(1):25-59. 7/53.
- Watson, Robert F., Sidney Rothbard & Parker Vanamee 3828  
The antigenicity of rat collagen. J. Exptl. Med. 99(6):535-50. 6/54.
- Wax, Nelson 3829  
Space charge requirements in some ideally focused electron-optical systems. J. Appl. Phys. 24(6):727-30. 6/53.
- Weber, A. 3830  
Aspects microscopiques nouveaux du tissu nerveux fournis par la technique d'impregnation argentique utilisée à l'Institut d'Anatomie de Genève. Rev. Neurologique. 93:817-28. 1955.
- Weber, G., G. Zampi & U. Ignesti 3831

Microscopia elettronica su sezioni di tiroide di ratto in varie situazioni funzionali. Arch. "De Vecchi" anat. patol. e med. clin. 22(1): 297-308. 1954.

Weber, K. & C. von Fragstein 3832  
Über die Durchlässigkeit von Trägerfolien für den Elektronenstrahl im Übermikroskop. Optik. 11:511-23. 1954.

Weber, Robert L. 3833  
College courses in electron microscopy. Am. J. Phys. 20(5):301-4. 5/52.

Weber, Robert L. 3834  
College instruction in electron microscopy. (Abstract, Paper #27, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:115. 1953.

Weber, Rudolf 3835  
Die Bedeutung der Chemischen Erforschung von Zellbestandteilen für die Lokalisation von Stoffwechselvorgängen in der Zelle. Bull. Galenica Bern. 15:174-81. 1952.

Weber, R. 3836  
Elektronenmikroskopische Untersuchungen an Leberzellen von *Zenopus laevis* Daud. Rev. suisse zool. 59:268-77. 6/52.

Weber, Rudolf 3837  
Strukturveränderungen an isolierten Mitochondrien von *Xenopus*-Leber. Z. Zellforsch. 39:630-40. 1954.

Wegmann, L. 3838  
Der Aufbau des Trüb-Tüber-Elektronenmikroskopes. Optik. 7(4/5):263-6. 1950.

Wegmann, L. 3839  
Zur Bestimmung des Auflösungsvermögens durch Fresnelsche Beugung im Elektronenmikroskop. Helv. Phys. Acta. 23:1-16. 1950.

Wegmann, L. 3840  
Zur Frage der Abbildung von Atomabständen im Elektronenmikroskop. Helv. Phys. Acta. 23: 867-8. 1950. 24:63-71. 1951.

Wegmann, L. 3841  
Ein neues Trüb, Tüber-Elektronenmikroskop. Instruments and Measurements, Conf., Stockholm, Trans. :73-83. 1952.

Wegmann, L. 3842  
Objektveränderungen und Beleuchtungssystem im Elektronenmikroskop. Optik. 10:44-59. 1953.

Wegmann, L. 3843  
Ein verzeichnungsarmes elektromagnetisches Doppelprojektiv für Elektronenmikroskope. Helv. Phys. Acta. 26:448-9. 1953. Optik. 11: 153-70. 1954.

Wegmann, L. 3844  
Zum Auflösungsvermögen des Elektronenmikroskops mit kalter Kathode. Helv. Phys. Acta. 26:449-50. 1953.

Wegmann, L. 3845  
Un diffractographe électronique pour enregistrement continu. Rapport Europées Congrès Toeg. Em, Gent, 4/7-10/54. :195-8.

Weibull, Claes 3846  
Bacterial flagella as fibrous macromolecules. Discussions Faraday Soc. 11:195-9. 1951.

Weibull, C. & J. Hedvall 3847  
Some observations of fractions of disintegrated bacterial cells obtained by differential centrifugations. Biochim. et Biophys. Acta. 10:35-41. 1953.

Weichan, C. 3848  
Zur elektronenmikroskopischen Untersuchung von Dehnungsvorgängen mit Hilfe einer Spreizpatrone. Z. wiss. Mikroskop. 62(3):147-51. 1955.

Weidel, Wolfhard & Eduard Kellenberger 3849  
The E. coli B-receptor for the phage T<sub>5</sub>. II. Electron microscopic studies. Biochim. et Biophys. Acta. 17:1-9. 5/55.

Weil, Rolf & Harold J. Read 3850  
Electron-microradiography of electrodeposited metals. J. Appl. Phys. 21:1068. 10/50.

Weil, Rolf & Harold J. Read 3851  
The structure of electrodeposited metals. Metal Finishing. 53:60-4. 11/55. 54:56-9. 11/56.

Weinreb, Stanley 3852  
Ultraviolet polymerization of monomeric methacrylates for electron microscopy. Science. 121:774-5. 5/27/55.

Weinreb, Stanley & John W. Harman 3853  
Cytochondria and myofibril interrelationships in pigeon breast muscle. (Abstract, Paper #H10, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1464. 1954.

Weinreb, S. & J. W. Harman 3854  
A rotary displacement specimen holder for thin-sectioning with reciprocating microtomes. Exptl. Cell Research. 7:274-6. 8/54.

Weinreb, Stanley & John W. Harman 3855  
Phase and electron microscope studies of the interrelationship of cytochondria and myofibrils in pigeon breast muscle. J. Exptl. Med. 101(5):529-38. 5/1/55.

Weinstein, H. J. 3856  
An electron microscope study of cardiac muscle. Exptl. Cell Research. 7:130-46. 1954.

Weiss, Armin & Ulrich Hofmann 3857  
Faseriger Vermikulit von Kropfmühl bei Passau. Acta Albertina Ratisbonensia. 20: 53-7. 1951-2.

Weiss, Jules M. 3858  
The ergastoplasm; its fine structure and relation to protein synthesis as studied with the electron microscope in the pancreas of the Swiss albino mouse. J. Exptl. Med. 98(6): 607-18. 12/1/53.

Weiss, Jules M. 3859  
Intracellular changes due to neutral red as revealed in the pancreas and kidney of the mouse by the electron microscope. J. Exptl. Med. 101:213-24. 2/1/55.

Weiss, Jules M. 3860  
Mitochondrial changes induced by potassium and sodium in the duodenal absorptive cell as studied with the electron microscope. J. Exptl. Med. 102(6):783-8. 12/55.

Weiss, Jules M. 3861  
The role of the Golgi complex in fat absorp-



tion as studied with the electron microscope with observations on the cytology of duodenal absorptive cells. *J. Exptl. Med.* 102(6):775-82. 12/55.

Weiss, Jules & Albert I. Lansing 3862  
Age changes in the fine structure of anterior pituitary of the mouse. *Proc. Soc. Exptl. Biol. Med.* 82:460-6. 3/53.

Weiss, P. & W. Ferris 3863  
Electronmicrograms of larval amphibian epidermis. *Exptl. Cell Research.* 6:546-9. 1954.

Weiss, Paul & Wayne Ferris 3864  
Electron-microscopic study of the texture of the basement membrane of larval amphibian skin. *Proc. Natl. Acad. Sci. U.S.* 40:528-40. 6/54.

Weitsch, W. 3865  
Über die speziellen Eigenschaften des Zwischenbeschleunigers im AEG-Zeiss Elektronenmikroskop. *Rapport Européen Congrès, Toeg. Em, Gent, 4/7-10/54.* :239-43.

Werner, Georges H. & R. Walter Schlesinger 3866  
Morphological and quantitative comparison between infectious and non-infectious forms of influenza virus. *J. Exptl. Med.* 100(2):203-16. 8/1/54.

Wersall, Jan 3867  
The minute structure of the crista ampullaris in the guinea pig as revealed by the electron microscope. *Acta Oto-Laryngol.* 44(4):359-69. 1954.

Wersall, Jan, Hans Engström & Sture Hjorth 3868  
Fine structure of the guinea-pig macula utriculi. *Acta Oto-Laryngol. Suppl.* 116:298-303. 1954.

Wesley, A. & B. Kuyper 3869  
Electron-microscopic observations on the xylem elements of a fossil plant. *Nature.* 168:137-40. 7/28/51.

Westermann, H. & G. Pfefferkorn 3870  
Ausgedehnte Interferenzschlieren auf elektronenmikroskopischen Bildern organischer Substanzen. *Optik.* 10:60-3. 1953.

Westermann, H. & G. Pfefferkorn 3871  
Über Präparatveränderungen und Abbildungseffekte bei der Elektronenmikroskopie. *Z. wiss. Mikroskop.* 61:270-5. 3/53.

Wetter, C. & J. Brandes 3872  
Elektronenmikroskopische Untersuchungen über Gestalt und Grosse des Kartoffel-S-Virus. *Naturwissenschaften.* 42(4):101-1. 1955.

Wetzstein, Rudolf 3873  
Die Objektorientierung für das Ultramikrotom zur elektronenmikroskopischen Untersuchung von Dünnschnitten. *Mikroskopie.* 10(9/10):341-4. 1955.

Wever, Franz, Alfred Krisch & Hans-Joachim Wiester 3874  
Veränderungen im Gefügebau von Chrom-Nickel-Molybdän-Stählen bei langzeitiger Beanspruchung im Zeitstandversuch bei 500°. *Arch. Eisenhüttenw.* 26(8):463-74. 1955.

Wever, Franz & Angelica Schrader 3875  
Elektronenmikroskopische Untersuchung der Gefügeveränderungen eines Chrom-Nickel-Molybdän-Stahles unter langzeitiger Zugbeanspruchung

bei 500°. *Arch. Eisenhüttenw.* 26(8):475-81. 1955.

Weyer, Fritz & Dietrich Peters 3876  
Untersuchungen zur Rickettsienmorphologie. I. Mitt.: Eine einfache und schonende Präparationsmethode für die elektronenoptische Untersuchung von Rickettsien. *Z. Naturforsch.* 7b:357-61. 6/52.

Whistler, Roy L., James D. Byrd & W. L. Thornburg 3877  
Surface structure of starch granules. *Biochim. et Biophys. Acta.* 18:146-7. 9/55.

Whistler, R. L. & E. S. Turner 3878  
Fine structure of starch granule sections. *J. Polymer Sci.* 18(87):153-6. 1955.

White, F. H., G. I. Wallace & J. O. Alberts 3879  
Serological and electron microscope studies of chronic respiratory disease agent of chickens and of turkey sinusitis agent. *Poultry Sci.* 33(3):500-7. 5/54.

White, J. C. & P. C. Elmes 3880  
Fibrous proteins of pathological bronchial secretions studied by optical and electron microscopy: deoxyribonucleo-protein and mucoprotein in bronchial secretions. *J. Pathol. Bacteriol.* 67:105-8. 1/54.

White, J. C., P. C. Elmes, A. Walsh & N. Rast 3881  
Oriented macro-molecular inclusions in ionic crystals, and their relationship to crystal growth. *Kolloid-Z.* 132(2/3):147-9. 1953.

White, Roberta, Carl E. Georgi & Walter E. Militzer 3882  
Characteristics of a thermophilic bacteriophage. *Proc. Soc. Exptl. Biol. Med.* 88:373-7. 1955.

Whitehead, J. R. 3883  
Electron microscopic examination of surface damage due to metallic sliding contact. 1st Int. Cong. Electron Micros., Paris, 9/50. *Proc.* :444-52. Paris, Ed. Rev. Optique, 1953.

Wiame, J. M., R. Storck & E. Vanderwinkel 3884  
Biosynthèse induite d'arabokinase dans les protoplastes de *Bacillus subtilis*. *Biochim. et Biophys. Acta.* 18:353-7. 11/55.

Wicke, G. 3885  
Die elektronenoptische Darstellung verdauter und unverdauter Sojazellmembranen. *Optik.* 7:332. 10-12/50.

Wicke, G. 3886  
Die elektronenoptische Darstellung von Zellmembranen der Sojabohne. *Kolloid-Z.* 119:94-8. 11/50.

Wiegmann, Joachim 3887  
Electron-optical examination of clays. *Silikat Tech.* 4:546-8. 1953.

Wiesenberger, E. 3888  
Versuche zur Anwendung der Elektrolyse in der elektronenmikroskopischen Präparations-technik. *Z. wiss. Mikroskop.* 62(3):163-72. 1955.

Wigand, Reinhard 3889  
Elektronenoptische Untersuchungen an Blutparasiten. *Folia Haematol.* 71(4):479-80. 1952.

WIGAND  
#3890

WILLIAMS  
#3919

Wigand, R. & D. Peters 3890  
Neuere Untersuchungen über *Bartonella muris*  
Mayer. I. Z. Tropenmed. u. Parasitol. 2(2):  
206-20. 9/50.

Wigand, R. & Dietrich Peters 3891  
Blutparasiten der weissen Maus. I. Studien  
über *Eperythrozoon coccoides* Schilling, Dinger.  
Z. Tropenmed. u. Parasitol. 3(4):461-72. 5/52.

Wigand, Reinhard & Dietrich Peters 3892  
Blutparasiten der weissen Maus. II. Zur  
Kenntnis der *Bartonella muris musculi* Schilling.  
Z. Tropenmed. u. Parasitol. 4(1):1-10. 10/52.

Wigand, Reinhard & Dietrich Peters 3893  
Neuere Untersuchungen über *Bartonella muris*  
Mayer. Z. Tropenmed. u. Parasitol. 3(4):437-  
52. 5/52.

Wigand, Reinhard & Dietrich Peters 3894  
Unbekannter Mikroorganismus aus der Luft.  
Z. wiss. Mikroskop. 60:405-7. 3/52.

Wigand, Reinhard & Dietrich Peters 3895  
Enzymatisch-Elektronenoptische Untersuchungen  
an Kokken. 6th Congr. Intern. Microbiol.,  
Rome, 9/6-12/53. Atti. I(1):77-9.

Wigand, R. & D. Peters 3896  
Abbauversuche an *Haemobartonella muris* und  
*Eperythrozoon coccoides*. Z. Tropenmed. u. Par-  
asitol. 5(4):482-92. 11/54.

Wigand, R. & D. Peters 3897  
Licht- und elektronenoptische Untersuchungen  
über den Abbau gramnegativer Kokken mit Nucle-  
asen und Proteasen. Z. Naturforsch. 9b(9):  
586-96. 1954.

Wigand, Reinhard, Dietrich Peters & Oscar 3898  
Urteaga B.  
Neue Untersuchungen über *Bartonella bacilli-*  
*formis*. Z. Tropenmed. u. Parasitol. 4:539-48.  
10/53.

Wilcox, J. D. & W. R. Van Antwerp 3899  
A sampling technique for small air-borne  
particulates. Particle-size distribution by  
combined use of light and electron microscopes.  
A.M.A. Arch. Ind. Health. 11:422-4. 5/55.

Wilhelm, G. 3900  
Elektronenoptische Untersuchungen zur Ver-  
knöcherung. Z. Kinderheilk. 76:73-8. 1955.

Wilkinson, P. G. 3901  
The properties of evaporated gold and tung-  
sten oxides. J. Appl. Phys. 22:226-32. 2/51.

Wilkinson, P. G. & L. S. Birks 3902  
Particle size of evaporated gold. J. Appl.  
Phys. 21:60. 1/50.

Williams, Betty E. 3903  
Diffraction grating copies for electron micro-  
scope calibration. J. Sci. Instr. 31:190.  
5/54.

Williams, E. W. & H. O'Neill 3904  
Electron micrographs of crystal boundary and  
sub-boundary structures in steels and ingot  
irons. J. Iron Steel Inst. London. 177:224-8.  
6/54.

Williams, H. O. 3905  
A preliminary report on the crystalline in-  
organic component of bone in Paget's disease.  
J. Clin. Pathol. 6:304-6. 1953.

Williams, Robley C. 3906  
Electron microscopy of sodium desoxyribonu-  
cleate by use of a new freeze-drying method.  
Biochim. et Biophys. Acta. 9:237-9. 1952.

Williams, Robley C. 3907  
High-resolution electron microscopy of the  
particles of tobacco mosaic virus. Biochim.  
et Biophys. Acta. 8:227-44. 3/52.

Williams, Robley C. 3908  
High-resolution observations of the surface  
contour of particles of tobacco mosaic virus.  
(Abstract, Paper #30, Electron Microscope Soc-  
iety of America Meeting, Philadelphia, Pa.,  
12/8-10/51.) J. Appl. Phys. 23:162. 1/52.

Williams, Robley C. 3909  
Electron microscopy of purified nucleic acid  
fibrils. (Abstract, Paper #44, Electron Micro-  
scope Society of America Meeting, Pocono Manor,  
Pa., 11/5-7/53.) J. Appl. Phys. 24:1420.  
11/53.

Williams, Robley C. 3910  
A freeze-drying technique for electron mi-  
croscopy. (Abstract, Paper #28, Electron  
Microscope Society of America Meeting, Cleveland,  
Ohio, 11/6-8/52.) J. Appl. Phys. 24:115. 1953.

Williams, R. C. 3911  
A method of freeze-drying for electron micros-  
copy. Exptl. Cell Research. 4(1):188-201.  
1953.

Williams, Robley C. 3912  
The shapes and sizes of purified viruses as  
determined by electron microscopy. Cold Spring  
Harbor Symposia Quant. Biol. 18:185-95. 1953.

Williams, Robley C. 3913  
Electron microscopy of viruses. Advances in  
Virus Research. 2:183-239. 1954.

Williams, Robley C. 3914  
Significance of electron microscopy of  
particulate material from normal and from dis-  
eased cells. 2nd Nat'l. Cancer Conf., Cin-  
cinnati, 3/3-5/52. Proc. :1412-24. New York,  
American Cancer Soc., 1954.

Williams, Robley C. & Robert C. Backus 3915  
Determination of the weight of the bushy  
stunt virus particle by electron microscopy.  
(Abstract, Paper #19, Electron Microscope Soc-  
iety of America Meeting, Washington, D. C.,  
10/6-8/49.) J. Appl. Phys. 21:68. 1950.

Williams, Robley C., Robert C. Backus &  
Russell L. Steere 3916  
Macromolecular weights determined by direct  
particle counting. II. The weight of the  
tobacco mosaic virus particle. J. Am. Chem.  
Soc. 73:2062-6. 5/51.

Williams, Robley C., Robert C. Backus &  
Russell L. Steere 3917  
Uniformity of lengths and particle weights  
of tobacco mosaic virus. (Abstract, Paper #23,  
Electron Microscope Society of America Meeting,  
Detroit, Michigan, 9/14-6/50.) J. Appl. Phys.  
22:113. 1951.

Williams, R. C. & D. Fraser 3918  
Morphology of the seven T-bacteriophages.  
J. Bacteriol. 66(4):458-64. 10/53.

Williams, Robley C. & Dean Fraser 3919  
Structural and functional differentiation in  
T2 bacteriophage. (Abstract, Paper #32,



Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) J. Appl. Phys. 26:1396-7. 1955.

Williams, Robley C. & Frances Kallman 3920  
Examination of tissue-cultured Hela cells by electron microscopy of serial sections. (Abstract, Paper #A21, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1455. 1954.

Williams, Robley C. & Frances Kallman 3921  
Interpretations of electron micrographs of single and serial sections. J. Biophys. Biochem. Cytol. 1(4):301-14. 7/25/55.

Williams, Robley C. & Russell L. Steere 3922  
Electron microscopic observations on the unit of length of the particles of tobacco mosaic virus. J. Am. Chem. Soc. 73:2057-61. 5/51.

Williamson, K. I. & W. S. Bertaud 3923  
A new bacteriophage active against a lactic streptococcus. J. Bacteriol. 61:643-5. 5/51.

Wilsdorf, Heinz 3924  
Über das Wachstum elektrolytisch erzeugter poriger Aluminiumoxydschichten. Z. angew. Phys. 2:17-20. 1/50.

Wilsdorf, H. 3925  
Röntgenoptik mit Kristallreflektoren. Naturwissenschaften. 38(11):250-8. 1951.

Wilsdorf, Heinz 3926  
Die elektronenmikroskopische Untersuchung von Metalloberflächen mit Hilfe von Siliziummonoxyd-Aufdampfdrucken. Z. Metallk. 45:14-22. 1954.

Wilsdorf, Heinz & Doris Kuhlmann-Wilsdorf 3927  
Eine neue Oberflächenstruktur bei gedehntem Aluminium. Naturwissenschaften. 38(21):502. 1951.

Wilsdorf, Heinz & Doris Kuhlmann-Wilsdorf 3928  
Direct evidence for dislocation in aluminium-copper alloys. Phil. Mag. 45:1096-7. 10/54.

Wilsdorf, H. & D. Kuhlmann-Wilsdorf 3929  
An experimental study of dislocations in aluminium-copper alloys by means of precipitation. Report of the Conference on defects in crystalline solids. :175-86. London, The Physical Society, 1954.

Wilson, John W. Jr. & Gerard S. Mapes 3930  
Shadowcasting lubricating greases for electron microscope examination. (Abstract, Paper #E2, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1460. 1954.

Wilson, Reginald A., Julius L. Danto & Stuart Maddin 3931  
Electron microscopy of collagen fibrils during cortisone therapy of alopecia totalis (technical problems). J. Invest. Dermatol. 25(3):175-8. 9/55.

Winkler, Annelise 3932  
Zur Anwendung des Phasenkontrastverfahrens in der Bakteriologie. Z. Naturforsch. 6b(2):72-6. 1951.

Winkler, Annelise 3933  
The metachromatic granula of bacteria. Bacterial Cytology Symposium, 6th Int. Cong. Microbiol., Rome, 9/53. :39-44. Rome, 1st

Super. Sanità, 1953.

Winkler, Annelise, Mechthild Knoch & Hans König 3934  
Vergleichende licht- und elektronenmikroskopische Untersuchungen von Bakterien. Naturwissenschaften. 11:241-7. 1951.

Winterscheid, Loren C. 3935  
The cytology of mitochondria and nuclei in mycobacteria. Doctoral Dissertation, Univ. of Pennsylvania, 1953. 58 p.

Wislocki, George B. & Edward W. Dempsey 3936  
Electron microscopy of the human placenta. Anat. Record. 123(2):133-68. 10/55.

Wislocki, George B. & Edward W. Dempsey 3937  
Electron microscopy of the placenta of the rat. Anat. Record. 123(1):33-64. 9/55.

Wissemann, Charles L. Jr., Elizabeth B. Jackson, Fred E. Hahn, Anita C. Ley & Joseph E. Smadel 3938  
Metabolic studies of rickettsiae. I. The effects of antimicrobial substances and enzyme inhibitors on the oxidation of glutamate by purified rickettsiae. J. Immunol. 67(2):123-36. 8/51.

Wittebort, J. I. & Bernard Rubin 3939  
The structure of certain aircraft lubricating greases. (Abstract, Paper #44, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:115. 1951.

Witter, R. F., Michael L. Watson & Mary A. Cottone 3940  
Morphology and ATP-ase of isolated mitochondria. J. Biophys. Biochem. Cytology. 1(2):127-38. 3/25/55.

Wohlfarth-Bottermann, Karl-Ernst 3941  
Protistenstudien IV: Weitere Untersuchungen an Ciliaten-Cilien. Verh. dtsch. zool. Ges. Freiburg, 1952. :335-46.

Wohlfarth-Bottermann, Karl-Ernst 3942  
Experimentelle und elektronenoptische Untersuchungen zur Funktion der Trichocysten von *Paramecium caudatum*. Arch. Protistenk. 98(2):170-226. 1953.

Wohlfarth-Bottermann, K. E. 3943  
Cytologische Studien I. Zur sublichtmikroskopischen Struktur des Cytoplasmas und zum Nachweis seiner "Partikelpopulationen". Protoplasma. 43(4):347-81. 1954.

Wohlfarth-Bottermann, K. E. & F. Krüger 3944  
Protistenstudien VI. Die Feinstruktur der Axopodien und der Skelettnadeln von Heliozoen. Protoplasma. 43(3):177-91. 1954.

Wohlfarth-Bottermann, K. E. & F. Krüger 3945  
Über Affinitäten zwischen homologen sublichtmikroskopischen Strukturelementen von Faser-eiweißen. Z. Naturforsch. 9(1):30-5. 1954.

Wohlfarth-Bottermann, K. E. & G. Pfefferkorn 3946  
Die "Geschosse" der Pantoffeltierchen enthüllen Eiweißstrukturen. Umschau Wiss. u. Tech. 52(4):114. 1952.

Wohlfarth-Bottermann, K. E. & G. Pfefferkorn 3947  
Das Elektronenmikroskop analysiert Bewegungsvorgänge. Neue Ergebnisse über die Flimmer-

und Geisselbewegung. Umschau Wiss. u. Tech. 22:688. 1953.

Wohlfarth-Bottermann, K. E. & G. Pfefferkorn 3948

Protistenstudien I. Pro- und Nesselkapsel-trichocysten der Ciliaten-Gattung *Prorodon*. Z. wiss. Mikroskop. 61(4):239-48. 1/53.

Wohlfarth-Bottermann, Karl-Ernst & Gerhard Pfefferkorn 3949

Protistenstudien V. Zur Struktur des Wimperapparates. Protoplasma. 42(2):227-38. 1953.

Wohlfarth-Bottermann, K. E. & G. Pfefferkorn 3950

Schutzhüllen und Waffen von Einzellern. Umschau Wiss. u. Tech. 12:366. 1953.

Wohlfarth-Bottermann, K. E. & G. Pfefferkorn 3951

Zur sublichtmikroskopischen Struktur des Cytoplasmas, zugleich ein Beitrag zum Artefaktproblem. Z. wiss. Mikroskop. 62(3):191-9. 1955.

Wolf, Peter 3952

Die Abbildung molekularer Objekte mit dem Feldelektronenmikroskop. Z. angew. Phys. 6: 529-35. 12/54.

Wolff, O. 3953

Aufbau und Wirkungsweise des Siemens-Beschallgeräts zur Herstellung elektronenmikroskopischer Präparate. Z. wiss. Mikroskop. 61:180-4. 10/52.

Wolken, Jerome J. 3954

Structure of hen's egg membranes. Anat. Record. 111(1):79-90. 9/51.

Wolken, J. J. & G. E. Palade 3955

Fine structure of chloroplasts in two flagellates. Nature. 170:114-5. 7/19/52.

Wolken, J. J. & G. E. Palade 3956

An electron microscope study of two flagellates. Chloroplast structure and variation. Ann. N. Y. Acad. Sci. 56:873-89. 10/14/53.

Wolken, J. J. & F. A. Schwertz 3957

Chlorophyll monolayers in chloroplasts. J. Gen. Physiol. 37(1):111-20. 9/20/53.

Wolpers, C. 3958

Reticulocytes. (Abstract, Paper #36, Electron Microscopy Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:116. 1953.

Wood, R. K. S., A. H. Gold & T. E. Rawlins 3959

Electron microscopy of primary cell walls treated with pectic enzymes. Am. J. Botany. 39:132-3. 2/52.

Woods, H. J. 3960

Physics of fibres. London, Institute of Physics, 1955. 100 p.

Woods, Robert W. 3961

Water flow safety interlock. Electronics. 27:194. 5/54.

Woodward, L. A. 3962

Heating of samples in the electron microscope. Phys. Rev. 87:178. 1952.

Woodward, L. A. 3963

The morphology of kaolinite clay. (Abstract, "

Paper #19, Electron Microscope Society of America Meeting, Cleveland, Ohio, 11/6-8/52.) J. Appl. Phys. 24:114. 1953.

Woodward, LeRoy A. 3964

Variations in viscosity of clay-water suspensions of Georgia kaolins. Proc. 3rd Natl. Conf. Clays & Clay Minerals. Washington, National Research Council, 1955. Publ. 395.

Worley, Leonard G., Ernest Fischbein & Jennie E. Shapiro 3965

The structure of ciliated epithelial cells as revealed by the electron microscope and in phase-contrast. J. Morphol. 92(3):545-78. 5/53.

Wu, S. H. & Fred F. McKenzie 3966

Electron microscopic study of spermatozoa. Science. 119(3085):212-3. 2/12/54.

Wu, S. H. & Fred McKenzie 3967

Microstructure of spermatozoa after denudation as revealed by the electron microscope. J. Animal Sci. 14(4):1151-66. 1955.

Wyckoff, Ralph W. G. 3968

Les bactériophages et les virus en microscopie électronique tels qu'ils apparaissent sur coupes minces de tissus contaminés. Presse méd. 58:1439-41. 12/25/50.

Wyckoff, Ralph W. G. 3969

The electron microscopy of bacteriophage. (Abstract, Paper #37, Electron Microscope Society of America Meeting, Washington, D. C., 10/6-8/49.) J. Appl. Phys. 21:70. 1950.

Wyckoff, Ralph W. G. 3970

Filaments in cultures of bacteriophage. Experientia. 6:66-7. 2/50.

Wyckoff, Ralph W. G. 3971

Electron microscopy of chick embryo membrane infected with PR-8 influenza. Nature. 168: 651-2. 10/13/51.

Wyckoff, Ralph W. G. 3972

The electron microscopy of macromolecules. Advances in Protein Chem. 6:1-33. 1951.

Wyckoff, Ralph W. G. 3973

The fine structure of protoplasm in healthy and virus-diseased cells. Discussions Faraday Soc. 11:230-5. 1951.

Wyckoff, R. W. G. 3974

The macromolecular structure of biological materials. Science in Progr. 7th Ser. 93: 203-33. 1951.

Wyckoff, Ralph W. G. 3975

L'observation des bactériophages et des virus dans les cellules infectées. L'Union méd. Canada. 80:216. 2/51.

Wyckoff, Ralph W. G. 3976

Possible immature forms of bacteriophage. Experientia. 7(8):298. 1951.

Wyckoff, R. W. G. 3977

The virus of vaccinia in chick embryo membrane. Proc. Natl. Acad. Sci. U.S. 37(9): 565-9. 9/51.

Wyckoff, Ralph W. G. 3978

Visualizing macromolecules and viruses. Am. Scientist. 39(4):561-76. 10/51.



- Wyckoff, Ralph W. G. 3979  
The electron microscopy of vaccinia-diseased tissues. *Z. Zellforsch.* 38:409-20. 1953.
- Wyckoff, Ralph W. G. 3980  
Formation of the particles of influenza virus. *J. Immunol.* 70:187-96. 2/53.
- Wyckoff, R. W. G. 3981  
L'observation des virus dans les coupes minces des tissus. 1st Int. Cong. Electron Micros., Paris, 9/50. *Proc.* :19-28. Paris, Ed. Rev. Optique, 1953.
- Wyckoff, Ralph W. G. 3982  
The electron microscope in biology. *Nature.* 173:419-22. 3/6/54.
- Wyckoff, R. W. G. 3983  
Entwicklungslinien in der amerikanischen Elektronenmikroskopie. *Z. wiss. Mikroskop.* 62(2):87-91. 1954.
- Wyckoff, R. W. G. 3984  
Die Elektronenmikroskopie von Gewebeschnitten. *Z. wiss. Mikroskop.* 62(3):180-2. 1955.
- Wyckoff, Ralph W. G. 3985  
Introduction to symposium on sub-microscopic organization of cytoplasm. Symposium on Fine Structure of Cells, held at 8th Cong. of Cell Biology, Leyden, 1954. :201-13. Groningen, P. Noordhoff, 1955.
- Wahli, Hans-Rudolf 3986  
Über die submikroskopische Struktur von Kaseinaten sowie des Cytoplasmas von Tubifex-Keimen nach verschiedenartiger Fixierung. Inaugural dissertation, University of Bern. 7/53. 107 p.
- Xalabarder, C. 3987  
La biología del *My. tuberculosis* estudiada con el microscopio electrónico. *Publs. Inst. Antituberculoso "Francisco Moragas"*. Barcelona. 10:7-57. 1953.
- Xalabarder, C. 3988  
El origen del bacilo de Koch (en 60 radio-grafías electrónicas). *Publs. Inst. Antituberculoso "Francisco Moragas"*. Barcelona. 140 p. 1954.
- Xalabarder, C. & R. Cullel 3989  
Electron microscopy of *My. leprae*. *Publs. Inst. Antituberculoso "Francisco Moragas"*. Barcelona. 11:63-4, 68-83. 1955.
- Xeros, N. 3990  
Development of intranuclear inclusions in virus-diseased cells of lepidopterous larvae. *Nature.* 172:309-10. 8/15/53.
- Xeros, N. 3991  
Origin and fate of the virus bundles in nuclear polyhedroses. *Nature.* 172:548. 9/19/53.
- Xeros, N. 3992  
A second virus disease of the leatherjacket, *Tipula paludosa*. *Nature.* 174:562-4. 9/18/54.
- Xeros, N. 3993  
Origin of the virus-producing chromatic mass or net of the insect nuclear polyhedroses. *Nature.* 175:588-90. 4/2/55.
- Yagi, Nobumasa 3993a  
Note of electron microscopic research on

- Pterin pigments in the scales of pierid butterflies. *Annotationes Zoologicae Japonenses.* 27(3):113-4. 9/54.
- Yamada, Eichi 3993b  
The fine structure of the gall bladder epithelium of the mouse. *J. Biophys. Biochem. Cytol.* 1(5):445-58. 9/25/55.
- Yamada, Eichi 3993c  
The fine structure of the renal glomerulus of the mouse. *J. Biophys. Biochem. Cytol.* 1(6):551-66. 11/25/55.
- Yamada, Shizuo 3994  
Experimental studies on the reactivation phenomena of artificially activated eggs. 3. Electron micrography of the elevated egg membrane of Japanese Nereis. *Zikken Seibutsugaku Ho, Japan.* 4(2):41-77. 11/15/54.
- Yamafuji, K., F. Yoshihara & H. Omura 3995  
Experimental virus production in a Canadian strain of silkworm. *Enzymologia.* 15(4):182-6. 1952.
- Yamaguchi, Shigeto 3996  
On the etched surfaces of nickel single crystals. *J. Appl. Phys.* 22:983-4. 7/51.
- Yamaguchi, Shigeto 3997  
Oriented crystals in the rolled plates of alloys. *J. Appl. Phys.* 22:680-1. 5/51.
- Yamaguchi, Shigeto 3998  
Structure of oxide replica for electron microscopy. *J. Appl. Phys.* 22:1295-6. 10/51.
- Yamaguchi, Shigeto 3999  
Elektronenmikroskopie für den Metalleinkristall. *Naturwissenschaften.* 39:19. 1952.
- Yamaguchi, Shigeto 4000  
Markings found in the oxide replicas for electron microscopy. *J. Appl. Phys.* 23:935-6. 9/52.
- Yamaguchi, Shigeto 4001  
A note on "Electron microradiography of electrodeposited metals." *J. Appl. Phys.* 23:288-9. 2/52.
- Yamaguchi, Shigeto 4002  
Structure of oxide replicas for electron microscopy. *J. Appl. Phys.* 23:445-7. 4/52.
- Yamaguchi, S. 4003  
A combination of electron microscopy and diffraction. *Naturwissenschaften.* 40(21):551. 1953.
- Yamaguchi, Shigeto 4004  
Protective films on magnesium observed by electron diffraction and microscopy. *J. Appl. Phys.* 25(11):1437-8. 11/54.
- Yamaguchi, Shigeto 4005  
On the "active centers" found on metal surfaces. *J. Colloid Sci.* 10(2):189-93. 4/55.
- Yamaguchi, Shigeto & Tadayuki Nakayama 4006  
Titanium replica for electron microscopy. *J. Appl. Phys.* 24:658. 5/53.
- Yamamoto, Chujiro, Shigeo Kusunoki & Kyoko Hirano 4007  
Studies on the differences between *Bacillus crassus Lipschütz* and *Bacillus vaginalis Döderlein*. V. Electron microscopic observation of *Bac. crassus Lipschütz* and *Bac. vaginalis Döderlein*. *Japan J. Dermatol.* 63:301-3. 1955.

- Yamamoto, Tatsuo 4008  
Electron microscopy of yeast. The characteristics of cell wall. *J. Electronmicroscopy.* 2(1):26-8. 1954.
- Yamamoto, T. & M. Kitamura 4009  
Electron microscopy of yeast. VI. On the investigation of taxonomy of yeast (no. 1). *J. Electronmicroscopy.* 3(1):46-9. 1953.
- Yamamoto, Tatsuo & Susumu Nagasaki 4010  
Electron microscopy of yeast. VII. On characteristics of film yeasts. VIII. An analytical study of cytoplasm. *Research Repts. Kochi Univ.* 3(14):1-12. 12/54.
- Yamanaka, M., H. Mikami & S. Aoshima 4011  
Electron microscopic observation on *Bacterium tularensis* with special reference to the morphology of flagellum. *Bull. Osaka Med. School.* 1:24-33. 1954.
- Yamanaka, Motoki & Yoshihiro Ono 4012  
Studies on ozena. *Bull. Osaka Med. School.* 1(2):9-13. 10/54.
- Yarwood, C. E. & A. H. Gold 4013  
Guar as a local lesion host of potato virus S. *Plant Disease Reprtr.* 39:622. 8/15/55.
- Yasuda, Hakushi 4014  
Elektronoskopische Beobachtung der mit hochfrequentem Schall behandelten fixierten Erythrocyten und Bestimmung ihrer Ultrastruktur dichte auf f rberischem Wege. *Arch. hist. Japon.* 7(3):351-68. 12/54.
- Yasuda, Hakushi 4015  
Beobachtung der mit hochfrequentem Schall behandelten Kollagenfasern im Elektronenmikroskop und Bestimmung ihrer sublichmikroskopischen Struktur dichte auf f rberischem Wege. *Arch. hist. Japon.* 8(4):497-506. 6/55.
- Yasuzumi, G. 4016  
The ultrastructure of the interphase chromosome. (Abstract, Paper #47, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) *J. Appl. Phys.* 24:1420. 11/53.
- Yasuzumi, G. 4017  
The ultrastructure of mitotic chromosomes and of salivary gland chromosomes. (Abstract, Paper #46, Electron Microscope Society of America Meeting, Pocono Manor, Pa., 11/5-7/53.) *J. Appl. Phys.* 24:1420. 11/53.
- Yasuzumi, G. 4018  
Further studies on the ultrastructure of the nucleus and its components. (Abstract, Paper #H8, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) *J. Appl. Phys.* 25:1463. 1954.
- Yasuzumi, G. 4019  
Electron microscopic researches during 1954-1955 at the Department of Anatomy, Nara Medical College, Naraken, Japan. (Abstract, Paper #13, Electron Microscope Society of America Meeting, University Park, Pa., 10/27-9/55.) *J. Appl. Phys.* 26:1392-3. 1955.
- Yasuzumi, G. 4020  
Electron microscopic study on constituent chromofilaments of metabolic chromosomes. *Biochim. et Biophys. Acta.* 16:322-9. 1955.
- Yasuzumi, Gonpachiro, Ken-ichi Deguchi & Akihira Tomita 4021  
A helical appearance of salivary gland chromosomes and of collagen fibrils. *J. Electronmicroscopy.* 3(1):20-4. 1955.
- Yasuzumi, G. & S. Higashizawa 4022  
Submicroscopic structure of the carp erythrocyte as revealed by electron microscopy. *Cytologia, Tokyo.* 20(4):280-90. 12/30/55.
- Yasuzumi, G. & Keiko Ito 4023  
Electron microscopy of salivary gland chromosomes. *J. Heredity.* 45(3):135-42. 5-6/54.
- Yasuzumi, G., T. Morioka & A. Tanaka 4024  
Solid bodies appearing in electron microscope specimens. *Brit. J. Appl. Phys.* 4:338-9. 11/53.
- Yasuzumi, G. & Yoshimi Obata 4025  
Electron microscopy of human dentin. *J. Dental Research.* 34(6):808-13. 12/55.
- Yasuzumi, Gonpachiro & Zenro Odate 4026  
On the preparation of sample of biological specimens for electron microscopic observation. *J. Electronmicroscopy.* 1(1):59-62. 1953.
- Yasuzumi, G., Z. Odate & Y. Ota 4027  
The fine structure of salivary chromosomes. *Cytologia.* 16(3):233-42. 11/30/51.
- Yasuzumi, G. & S. Okimoto 4028  
On the ultrastructure of the carp erythrocyte. *Experientia.* 11(1):17. 1955.
- Yasuzumi, G., Z. Sugioka & A. Tanaka 4029  
Electron microscope observations on the metabolic nucleus. *Biochim. et Biophys. Acta.* 10:11-7. 1953.
- Yasuzumi, G. & Y. Yamamoto 4030  
Differentiation between metabolic chromosomes and micro-organisms with coiled structure. *Experientia.* 9(6):212. 1953.
- Yasuzumi, G. & Y. Yamamoto 4031  
Electron microscopy of the erythrocyte nuclei of *Sebastodes matsuabarae*. *Cytologia.* 18(3):240-50. 10/53.
- Yasuzumi, G. & T. Yamanaka 4032  
Electron microscope observations on nucleolar structure. *Japan J. Genet.* 27(3/4):111-2. 8/52.
- Yasuzumi, G., T. Yamanaka, S. Morita, Y. Yamamoto & J. Yokoyama 4033  
Metabolic chromosomes isolated from blood cell nuclei of various animals. *Experientia.* 8:218-20. 6/52.
- Yearian, H. J. 4034  
Investigations of the oxidation of chromium and nickel-chromium steels. *Purdue Research Foundation Su. Tech. Rpt. Contract N7onr-39419.* 6/54. 91 p.
- Yoshida, Nagayuki, Isamu Fukuya, Isao Kakutani, Saburo Tanaka, Jisuke Tegawa & Tadayo Hashimoto 4034a  
Studies on the bacterial cell wall. I. Electron staining of the cell wall of *B. subtilis* by phosphotungstic acid. *Tokushima J. Exptl. Med.* 1(1):8-12. 1954.
- Yoshida, N., I. Fukuya, I. Kakutani, S. Tanaka, K. Takaishi, K. Nishino & J. Tegawa 4035  
Studies on the bacterial cell wall. III. Electron microscopic studies on the formation



of the bacterial septa. Nippon Saikingaku Kaishi. 9(12):1059-61. 1954.

Yoshida, Nagayuki, Isamu Fukuya, Isao Kakutani, Saburo Tanaka, Kenji Takaishi, Kenji Nishino, & Jisuke Tegawa 4036  
Studies on the bacterial cell wall. IV. Electron microscopic studies of the incompletely hydrolysed cell wall of *E. coli* B strain. J. Electronmicroscopy. 3(3):5-7. 1954.

Yoshida, Nagayuki, Isamu Fukuya, Isao Kakutani, Saburo Tanaka, Kenji Takaishi, Kenji Nishino, Tadayo Hashimoto & Jisuke Tegawa 4037  
Studies on the bacterial cell wall. V. Electron microscope studies of the cell wall of *Salmonella typhi* H-901 and the preliminary experiment for the morphological studies of the changes in the cell wall induced by the antigen-antibody reaction. Tokushima J. Exptl. Med. 1(2):105-14. 7/54.

Yoshida, Nagayuki, Saburo Tanaka, Kenji Takaishi, Isamu Fukuya, Kenji Nishino, Isao Kakutani, Sigeyuki Inoi, Komei Fukui, Akira Kono & Tadayo Hashimoto 4038  
Studies on the role of the bacterial cell wall. VI. Studies on the role of the bacterial cell wall of *H. pertussis* and *V. cholerae* in immunochemical reactions. Tokushima J. Exptl. Med. 2(1):11-9. 1955.

Yoshida, Nagayuki, Isamu Fukuya, Isao Kakutani, Saburo Tanaka, Kenji Takaishi, Kenji Nishino & Tadayo Hashimoto 4039  
Studies on the bacterial cell wall. VIII. Demonstration of macromolecules showing filamentous arrangement in the cell wall of *Staph. aureus* 209P strain treated with trypsin. J. Electronmicroscopy. 3(1):52-3. 1955.

Yoshida, Nagayuki, Isamu Fukuya, Isao Kakutani, Saburo Tanaka, Kenji Takaishi, Kenji Nishino & Tadayo Hashimoto 4040  
Studies on the bacterial cell wall. IX. A study on the electron microscopical difference in the surface structure of the cell walls between the V and W phase organisms of typhoid bacilli. Tokushima J. Exptl. Med. 2(2):117-22. 1955.

Yudowitch, K. L. 4041  
Latex size by X-rays. (Abstract, Paper #17, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:112. 1951.

Zacek, J. & M. Rosenberg 4042  
A study of the effect of X-rays upon the ultrastructure of the erythrocyte membrane. Biochim. et Biophys. Acta. 5:315-26. 6/50.

Zaffiro, P. 4043  
Alterazioni della morfologia del *Treponema pallidum* per azione di anticorpo immobilizzante e di complemento. Riv. ist. Sieroterap. ital. 30(3):161-7. 4-5/55.

Zapf, K. 4044  
Licht- und elektronenoptische Untersuchungen über die Ultraschallwirkung auf *Bacterium coli* unter Penicillineinfluss. Zentr. Bakteriöl. Parasitenk. Abt. 1. Orig. 159:436-53. 1953.

Zapf, K. 4045  
Elektronenoptische Untersuchungen zur Frage der Einwirkung subletaler Antibiotikakonzentrationen auf Bakterien. Zentr. allgem. Pathol. u. pathol. Anat. 92:213. 1954.

Zapf, K. 4046  
Licht- und elektronenmikroskopische Untersuchungen zur Einwirkung von Bakteriophagen auf Bakterien. Arbeitstag. Biophys. Berlin 1954. :121-31. Berlin, Dtsch. Verl. d. Wiss., 1955.

Zbinden, G. 4047  
Der hyaline Knorpel im elektronenmikroskopischen Bild. Z. wiss. Mikroskop. 61(4):231-8. 1/53.

Zbinden, G. 4048  
Über Feinstruktur und Altersveränderungen des hyalinen Knorpels im elektronenmikroskopischen Schnittpräparat und Beitrag zur Kenntnis der Verfettung der Knorpelgrundsubstanz. Schweiz. Z. allgem. Pathol. u. Bakteriöl. 16(2):165-89. 1953.

Zehender, E. 4049  
Versuche zu einer Analyse aufgedampfter Schichten. Optik. 10:156-62. 1953.

Zemlianova, L. I. & U. M. Kushnir 4050  
Application of the electron microscope to micro-crystallochemical analysis. (in Russian) Zavodskaya Lab. 8:972-5. 1952.

Zemlianova, L. I., U. M. Kushnir & A. I. Frimer 4051  
One-step quartz replicas for electron microscopic research. (in Russian) Doklady Akad. Nauk S.S.S.R. 70:991-3. 1950.

Ziegenspeck, Hermann 4052  
Die Filarstruktur der Zellblasen von *Valonia utricularis*, eine submikroskopische Sperrholzkonstruktion. Mikroskopie. 8(1/2):47-51. 1953.

Zollers, S. M. & A. A. Litwak 4053  
Operating considerations in the design of the electron microscope. (Abstract, Paper #A6, Electron Microscope Society of America Meeting, Highland Park, Ill., 10/14-6/54.) J. Appl. Phys. 25:1453. 1954.

Zollers, S. M., H. E. Reeber & H. F. Schneider 4054  
A 100-kv electron microscope voltage supply. (Abstract, Paper #12, Electron Microscope Society of America Meeting, Detroit, Michigan, 9/14-6/50.) J. Appl. Phys. 22:111. 1951.

## ABERG

Åberg, B. 425.  
 Abul-Haj, S. K. 3073.  
 Ackerman, E. 1963.  
 Ackermann, W. W. 2545.  
 Adelberg, E. A. 1827.  
 Aeby, A. 3396.  
 Agar, A. W. 2677, 3039, 3040, 3041.  
 Agar, H. D. 1453.  
 Aihara, S. 3620, 3621, 3622.  
 Ajiro, H. 3622.  
 Akabori, H. 1808, 2061.  
 Akiyami, T. 1244.  
 Alberts, J. O. 3879.  
 Albright, J. T. 3296.  
 Aleem, A. A. 900.  
 Aleksashin, V. I. 3758.  
 Alex, M. 2096.  
 Alexanian, C. 3080.  
 Alfrey, T. Jr. 478a.  
 Algera, L. 3269, 3270.  
 Alvira, T. 26.  
 Amboss, K. 1033.  
 Amelinckx, S. 840, 3783.  
 Amoroso, E. C. 849.  
 Amy, J. A. 379a.  
 Anderegg, J. W. 2151.  
 Anderson, E. 227.  
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 Andersson, E. 3429.  
 Andervont, H. B. 169.  
 Andrew, K. F. 1451.  
 Andrews, R. D., Jr. 925.  
 Angelotti, A. 2271.  
 Angulo, J. J. 3809.  
 Antes, L. 963.  
 Antzenberger, P. 2846.  
 Aoshima, S. 4011.  
 Aoyagi, S. 3607.  
 Appelbe, B. 1905.  
 Arai, S. 3643.  
 Arakawa, M. 3532, 3533, 3534, 3535, 3536,  
 3537, 3538, 3560.  
 Arasimavicius, A. 84, 86.  
 Arber, W. 1923.  
 Ariga, H. 674.  
 Arima, J. 3606.  
 Armbruster, O. 3221.  
 Armen, D. M. 96, 1062, 1962, 2084, 2085,  
 2206.  
 Arnold, S. M. 2034.  
 Asadi, A. M. 693a.  
 Asaeda, T. 3596, 3597.  
 Asano, N. 1466, 1467.  
 Asboe-Hansen, G. 1806.  
 Ascenzi, A. 30, 31, 32.  
 Astbury, W. T. 1771, 2700, 2701, 2702,  
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 Atanasiu, P. 2159.  
 Avery, J. K. 3826.  
 Baas, G. 2943.  
 Bachmann, L. 760.  
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 Bahadur, K. 901, 902, 2693.  
 Bahr, G. F. 249, 919, 2620.  
 Bailey, G. W. 678.  
 Baker, R. F. 5, 318a, 1356, 1369, 2718,  
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 Baker, W. W. 229, 230.  
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## BLANK

Bang, F. B. 456, 456a, 457, 1305, 1306, 1307,  
 1308, 1765, 2549, 2550, 3058.  
 Barbu, E. 1323.  
 Bardet, J. 1934.  
 Barhite, M. 850.  
 Barkan, S. 3567.  
 Barlow, J. L. 1634.  
 Barnes, G. 977.  
 Barton, A. D. 2090.  
 Baruch, P. 3348.  
 Basset, G. A. 722.  
 Bateman, J. B. 1382, 1550.  
 Bates, T. F. 2553.  
 Bath, J. D. 3473, 3474, 3475.  
 Baud, C. A. 1257.  
 Bauer, A. 299, 300, 301, 302, 303.  
 Bauer, S. H. 1557.  
 Baumann, J. A. 214.  
 Bayley, S. T. 1528.  
 Beams, H. W. 1801, 3020, 3312.  
 Bear, R. S. 443.  
 Beard, D. 240, 987, 2439, 3360, 3362.  
 Beard, J. W. 239, 987, 2439, 3358, 3359,  
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 Beeman, W. W. 2151.  
 Beermann, W. 117.  
 Begani, R. 2125.  
 Behne, W. 2541.  
 Behrens, O. K. 1941, 1943, 3482.  
 Beijer, J. J. 2673.  
 Bell, L. G. 2091.  
 Benard, J. 2448.  
 Benedetti, E. L. 80.  
 Bennett, B. M. 763.  
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 Berger, G. 3250.  
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 Beutner, E. H. 1548, 1687, 2493, 2494, 2498,  
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 Biberman, L. M. 2071.  
 Bieseke, J. J. 861, 1394, 1395, 1396, 3327.  
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 Bills, A. E. 2112.  
 Birbeck, M. S. C. 177.  
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 Birdsall, D. H. 1749.  
 Birdsall, H. A. 2265.  
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 Bishop, F. W. 1086, 3096.  
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- Blanquet, P. 627, 2080, 2360.  
 Blayden, H. E. 463.  
 Blicharski, J. 18, 19, 20, 21, 22, 23, 24.  
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 Brown, A. L. 1563.  
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 Brunner, A. 994.  
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 Neoplastic none  
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